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A Supplementary Program for Environmental Education,

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DESCRIPTORS

Behavioral Objectives: *Elementary Grades:

*Environmental Education: Fundamental Concepts: Instructional Materials: *Language Arts: Learning

Activities: Lesson Plans: *Secondary Grades:

*Teaching Guides

IDENTIFIERS

ESEA Title III

ABSTRACT

Fresented in these 13 teacher's guides for grades K-12 are lesson plans and ideas for integrating language arts and environmental education. Each lesson originates with a fundamental concept pertaining to the environment and states, in addition, its discipline area, subject area, and problem orientation. Following this, behavioral objectives and suggested learning experiences are outlines. Behavioral objectives include cognitive and affective objectives and skills to be learned, while learning experiences list student-centered in class activities and outside resource and community activities. Space is provided for teachers to note resource and reference materials—publications, audio-visual aids, and community resources. The guides are supplementary in nature and the lessons or episodes are designed to be placed in existing course content at appropriate times. This work was prepared under an ESEA Title III contract. (BL)

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INSTRUCTION - CURKICULUM - ENVIRONMENT

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RAM FOR ENVIRONMENTAL EDUCATION

nguage Arts Grade <u>K</u>

IIL E.S.E.A.

ESA's 3-8-9

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Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist

PREFACE

If you wish to excite students about their environment, help of over a hundred teachers, year long meetings, a summer worksh ecologists, this guide means realistic, developed aid for you. which have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are d

ces--to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know you to adapt, adopt, or use. Be design, the range of suggestions mentation and usage are even wider. Many episodes are self-c others can be changed in part or developed more keenly over possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning plan. The reasons are simple. No guide has all the answers unless viewed in the context of your classroom situation. The give it a triple reading, check over the resources listed, may prime your students, and seek help. The Project personnel are knowledgement page stand ready to aid your efforts. Feel free the project personnel are the project personnel

4. The Project Resource Materials Center serves all CESA 3, 8, We will send available materials pre-paid. Call fo

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school libra Center materials. Please offer suggestions, comments, or adv

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratc suggestions on the episode pages or use the attached evaluati lected in late May next year and will be used in our revision reactions and suggestions -- negative and positive. Please note in the episodes may refer to specific, local community resours cases, individual school districts and teachers will have to

stitutes. A list of terms pertinent to the episodes is below.
7. Ecologists and other experts have simplified the issue--survive Creation's beauty and complexity--often noted as the work of a and human energy to save. A year's work by a hundred of your gesture. Without you, their work will crumble, and so might we live to think, feel, and act in harmony with our world.

I. Cognitive means a measurable mental skill, ability, or proc 2. Affective refers to student attitudes, values, and feelings 3. APWI means Acceptable Performance Will Include (labels a co

4. EPA - Environmental Problem Area.



PREFACE

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g into existing, logical course content.

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to think, feel, and act in harmony with our world.

Editorial Board means a measurable mental skill, ability, or process based on factual data. refers to student attitudes, values, and feelings.

Acceptable Performance Will Include (labels a cognitive or mental performance.) ERIC :al Problem Area,

ACKNOWLEDGEMENTS: The following teachers and consultants particip of the Supplementary Environmental Education Gu

CESA #3 Eugene Anderson, Peshtigo Laura Berken, Oconto Falls Willard Collins, Crivitz John Cowling, Niagara Nicholas Dal Santo, Pembine Robert Dickinson, Oconto Ann Fuhrmann, Marinette Lillian Goddard, Coleman William Harper, Lena Robert Herz, St. James (L) Ester Kaatz, Wausaukee Michael Kersten, Suring Douglas Koch, Cath. Central Donald Marsh, Bonduel David Miskulin, Goodman Don Olsen, Shawano Anna May Peters, Florence Elmer Schabo, Niagara Marion Wagner, Gillett Ruth Ward, Crivitz George Kreiling, Marinette Marg. McCambridge, White Lake Virginia Pomusl, White Lake Gailen Braun, Lena Kay De Puydt, Gillett

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Ron Schreier, Omro

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Affective: Child accepts why life depends upon the correct arount of sunshine for strength & growth.

Skills to be Learned
Oral expression through dramatic rlay
Discussion about film, if used.

- 1. Two children representing plants in dramatic play & pantomine show the differences in growth & strength of the 2 plants in experiment. Third child represents the sunshine.
- Discussion with riddles.
 (Ex.- What is big, yellow, & round & doesn't make a sound. It's far, far away, but we still see it during the day.
- Read story about the sun.
- . Show picture that includes the sun. Have children describe what they see Could make up a story about it.
- 5. Bulletin board display.
 Sun in center; children place picture objects around that depend on the sun. (Label them also, if desired.)

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	4.	

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Discipline Area

Language Arts

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Subject

Language Arts

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Problem Orientation Energy Use Grade Kind.

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SUGGESTED LEARNING EXPERIENCES Student-Centered in class activity

- 1. Two children representing plants in dramatic play & pantomine show the differences in growth & strength of the 2 plants in experiment. Third child represents the sunshine.
- 2. Discussion with riddles. (Ex. - What is big, yellow, & round & doesn't make a sound. It's far, far away, but we still see it during the day.
- Read story about the sun.
- 4. Show picture that includes the sun. Have children describe what they see. Could make up a story about it.
- 5. Bulletin board display. Sun in center; children place picture objects around that depend on the sun. (Label them also, if desired.)

II. Outside Resource and Community Activities

Resource and Reference Materials

Continued and Additional Suggested Lear

Publications:

Books:

The Sun, Our Nearest Star, by Franklyn M. Branley, Crowell Co., 1961

Audio-Visual:

Community:

Sun in centur; children place pichero objects scound that depend on o sur (labet then also: lesines.

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aterials | Continued and Additional Suggested Learning Experiences

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2. All living organisms interact among Discipline Area Lan N themselves and their environment, forming an intricate unit called an Subject Lan Ρ Problem Orientation T ecosystem. SUGGESTED LEARNI BEHAVIORAL OBJECTIVES I. Student-Centered in class Cognitive: Children arrange activity each system in order. Affective: Children will A. Find pictures & make ecological interdependence accept that all organisms cannot live alone. pictures. Bunny Skills to be Learned Fox Language development as evidenced in discussion of animal life of locale Math game (Fishing for Grass number facts) B. Paste on large drawing: Food Chains ...Deer 🚒 Grass 🖎 Hunter 🖯 Seaweed 🐛

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D. Their own family chain-int typical foods they eat. Man

-[™]Big Fish

¹Grass

Little Fish

Cow (meat &

<u>ing organisms in</u>	teract among					
and their envir	onment,	Discipline Ar	ea <u>Lang</u>	guage Arts		
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Resource and Reference Materials Continued and Additional Suggested La Publications:

Audio-Visual:
Science Material
Original drawings of students
Games
Smokey songs

Community:
Conservation person

Tell it little de elle son atom . C. com temple elle son atom . C. com elle son atom . C. c

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Continued and Additional Suggested Learning Experiences erials ts

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C 3. Environmental factors are limiting

N on the numbers of organisms living

Discipline Area

E within their influence, thus, each

Subject

T environment has a carrying capacity.

Problem Orientation

BEHAVIORAL OBJECTIVES
Cognitive: Children will
show through oral discussion ability to make simple
& logical judgments.
Affective: Children will
know that size of area
limits fun & activities.

Skills to be Learned
Oral skills
Observation
Making judgments
Giving reasons for
conditions & feelings

SUGGESTED LEARNI
I. Student-Centered in class activity

- 1. Blocks in a container.
 One child can demonstrate that placing blocks in a box is limited. Keep putting in blocks until container will hold no more. Discussion & making oral judgments as to it only holding a certain number.
- 2. Mark off a small area & and crowd with children till filled. Then, taking the number of children in the small area, take them outdoors and let on playground area while others observe.
- 3. Return to room. Follow up with questions: How did you feel? What could you do & not do in each space?

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observe.

3. Return to room. Follow up with questions:
How did you feel?
What could you do & not do in each space?

Resource and Reference Materials
Publications:
Rabbit Hill by Robert Lawson

Continued and Additional Suggested

Audio-Visual: Film:

Rabbit Hill, color, 2 reels 53 minutes, Brown County Library.

Community:



Continued and Additional Suggested Learning Experiences terials son



င ၁	4. An adequate supply of ire	
Ň	water is essential for life.	Discipline A
CE		Subject
P T		Problem Orie
		_

BEHAVIORAL OBJECTIVES
Cognitive: The learner
will tell a story about
going without water. The
learner will list ways
he uses water at school.
Affective: The class will
offer ways in which they
use water. The list will
be written on board.

Skills to be Learned
Listing what could not
be done if there was no
water
Giving a talk about
the need of water

Story-telling

I. Student-Centered in activity

 Show pictures of the places in the world water is found (ocea pond, river)

SUGGESTE

Show pictures of wh there isn't water (d tundras)

3. Make bulletin board above pictures.

4. To see if water is sential, the childre will not use any wat a given amount of ti

5. Children will list things they were not to do because of not able to use water.

6. Children will tell about

a. how they felt whe couldn't use waterb. why he needs wate

 The children could figure out a lunch m meal which would not water. ate supply of pure sential for life. Discipline Area Language Arts Subject Language Arts Adequate Problem Orientation Water Supply Grade K-1 SUGGESTED LEARNING EXPERIENCES AL OBJECTIVES he learner Student-Centered in class Outside Resource and II. tory about activity Community Activities water. The 1. Show pictures of the many list ways places in the world where at school. water is found (ocean, lake, he class will pond, river) which they 2. Show pictures of where e list will there isn't water (deserts, board. tundras) 3. Make bulletin board of Learned above pictures. could not 4. To see if water is esere was no sential, the children will not use any water for k about a given amount of time. ater 5. Children will list all g things they were not able to do because of not being able to use water. 6. Children will tell story a. how they felt when they couldn't use water b. why he needs water 7. The children could try to figure out a lunch menu or meal which would not use water.

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Resource and Reference Materials Publications:

Continued and Additional Suggested Learning

Audio-Visual:

pictures of where water is found & where water is not found

Community:

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Continued and Additional Suggested Learning Experiences

C 5. An adequate supply of clean air is

N essential because most organisms

Discipline Area La

Subject

E depend on oxygen, through respiration,

- 45,500

T to release the energy in their food.

Problem Orientatio

BEHAVIORAL OBJECTIVES

Cognitive: There is other places where there is a lack of air, such as plastic bags, trunks, sand banks. Children will identify these places.

Affective: The child will respond to the teacher's question: If you saw a refrigerator outside what would you do?

Skills to be Learned

Descriptive words

Good speaking skills

Building a plot

Good listening &

assimilation skills

SUGGESTED LEAF

I. Student-Centered in class
activity

A. Class activity

1. Teacher draws (cross-section) of child in clair-tight appliance. As inside designated by child supply is exhausted in limited place, one car survive; so all air suphas its limits in various amounts in various area must be conserved or winsed.

Problem focused: Lack of oxygen causes sickness adverse effects.

te supply of clean air is

cause most organisms

Discipline Area <u>Language Arts</u>

gen, through respiration,

Subject

Language Arts

ne energy in their food.

Problem Orientation Sufficient AirGrade K

OBJECTIVES ere is other ere is a ich as runks. ldren hese

child will teacher's u saw a tside what

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SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

A. Class activity

1. Teacher draws (crosssection) of child in close air-tight appliance. Air inside designated by circulating arrows-to child. As supply is exhausted in a limited place, one cannot survive; so all air supply has its limits in various amounts in various areas & must be conserved or wisely

Problem focused: Lack of oxygen causes sickness or adverse effects.

II. Outside Resource and Community Activities

A. Outside activity

1. Safety pamphlet from police department or a newspaper article relating death or danger of playing with or in a discarded refrigerator, freezer, etc.

Resource and Reference Materials Publications:

Continued and Additional Suggested Le

Audio-Visual:

Community:



Continued and Additional Suggested Learning Experiences

rials

ESEA Title III - 59-70-0135-1 Project I-C-E

C 6. Natural resources are not equally
O N distributed over the earth or over Discipline Area
C E time and greatly affect the geographic Subject
P conditions and quality of life. Problem Orientation

BEHAVIORAL OBJECTIVES
Cognitive: Children will
identify plants & animals
of an arid & tropic area
& classify through oral
discussion & observation.
Affective: Each child will
select whether he would like
to live in the jungle or
where he now lives & tell
why.

Skills to be Learned
Observation
Oral discussion
Making judgments
Vocabulary
Classification

SUGGESTED LEARNI

1. Student-Centered in class (
activity

1. Show to class color photos of desert plant & animal life in environment.

2. Color photos of jungle or tropical environment.

3. Through observation & discussion, children point out & compare two environments.

4. Develop terms: desert, jungl

5. Point out heat, lack of water & moisture.

a. If desired, as part of another lesson, teacher may also point out seasons.

6. Flannelgraph presentation

a. 6 people vs. 4 plates

b. dogs vs. no. of bones

are not equally

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Resource and Reference Materials Publications:

Continued and Additional Suggeste

Audio-Visual:

Living Desert, color photos
Walt Disney Productions
Kim, Jungle Boy, color
paintings

Community:
 classroom or school garden

Continued and Additional Suggested Learning Experiences erials

ESEA Title III - 59-70-0135-1 Project I-C-E

C 7. Factors such as facilitating transportation,

N economic conditions, population growth, Discipline Ar

E and increased leisure time have a great Subject

T <u>influence on changes in land use and</u> Problem Orien centers of population density.

BEHAVIORAL OBJECTIVES

Cognitive: Children will
show through discussion,
murals or pictures, that
they know changes in
living are made through
economic conditions &
increased leisure time.
Affective: The children
will make a verbal choice
between 2 choices.

Example: Would you have more clothes if you lived long ago or now? Did your mother have to know how to do more things with material long ago or now?

Skills to be Learned Listening skills Visual & oral skills SUGGESTED

1. Student-Centered in cl
activity

A. Class: Varied & Invol Students

l. The first part is listening to two restory relates how or person with a needle a service for a small community for service she required from ot As opposed to: Pione life where each family had to do each service himself to maintain

family unit's needs:
2. Discussion question
following record on

economic changes.
a. In pioneer family many people had to in order for the ligirl & boy to get clothes?
Example: Dad & brownised the sheep & sheared them, rais

food to feed sheep Grandmother & moth Washed & combed th Wool. Grandmother to make threads. (

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lons, population growth, Discipline Area Language Arts

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Language Arts

EXPERIENCES

Problem Orientation Leisure Time

lation density. SUGGESTED LEARNING I. Student-Jentered in class

activity

A. Class: Varied & Involving Students

1. The first part is listening to two records. Story relates how one person with a needle did a service for a small community for services she required from others. As opposed to: Pioneer life where each family had to do each service himself to maintain the family unit's needs.

2. Discussion questions following record on economic changes.

girl & boy to get new clothes? Example: Dad & brother raised the sheep & sheared them, raised food to feed sheep. Grandmother & mother washed & combed the wool. Grandmother had to make threads. (cont.) II. Outside Resource and Community Activities

Grade K

a. In pioneer family, how to many people had to work in order for the little

Resource and Reference Materials

Publications:

Hardbound text going with SRA kit which should be used with opaque projector in conjunction with the record.

Audio-Visual:

SRA Grade I Social Studies Kits
Part I Records #12 & #13 (Dealing
with economics in a family in
the past as compared to today's
living)

Part I Records #15 & #16 (Dealing with leisure time being used for pleasure away from home or different activities at home, according to individual choice.

Community:

Library for photo plates showing changes in environment due to machinery, various resources, etc.

Continued and Additional Suggested I. (cont.)

Mother wove, dyed & sewed mat dress & trousers.

b. When you who live in this ye do you get it?

c. Who finds it easier to get do one dress?

d. In the little town of the se Tom get his trousers fixed?

e. Why was Mrs. Brown's needle

f. As more people live in a sma can they get new clothes like by raising sheep & making the

g. Would you like this? Why? Li people live closer together.

Make mural, depicting scenes beeg. Pioneer vs today

4. Make up a skit depicting 2 way

aterials

SRA kit opaque with

s Kits (Dealing Ly in coday's

(Dealing used for nome, choice.

showing se to ces, etc. Continued and Additional Suggested Learning Experiences I. (cont.)

Mother wove, dyed & sewed material to make a dress & trousers.

- b. When you who live in this year want a dress, how do you get it?
- c. Who finds it easier to get dresses or more than one dress?
- d. In the little town of the second story, how did Tom get his trousers fixed?
- e. Why was Mrs. Brown's needle so important to her?
- f. As more people live in a small area like a town, can they get new clothes like the pioneer family by raising sheep & making their own material?
- g. Would you like this? Why? Life changes as more people live closer together.
- 3. Make mural, depicting scenes based on records. e.g. Pioneer vs today
- 4. Make up a skit depicting 2 ways of life.

ERIC

C 7. Factors such as facilitating transportation,

N <u>economic conditions, population grow</u>th, Discipline Area <u>Langua</u>

and increased leisure time have a great Subject

Langua

II

T influence on changes in land use and Problem Orientation Polemeters of population density.

BEHAVIORAL OBJECTIVES | SUGGESTED LEARNING |

BEHAVIORAL OBJECTIVES Cognitive: The student will help to form a list of objectives for a trip. Affective: Children will voluntarily participate in a discussion on a teacher made question. Example: Why don't we leave the animals in the woods where they are happy instead of penning them up in parks or zoos? After they have had a poll of hands to show who wants to pen the animals, have discussion

Skills to be Learned
Write letters
List necessary things to
be accomplished
Writing stories

on the reasons they chose.

I. Student-Centered in class activity

A. Classroom activities

- 1. Have children make believe he is one of the animals he knows and tell:
 - a. Where he lives
 - b. Where he wishes he could live
 - c. Why he is there
 - d. How he helps man or other animals
- Make a bulletin board
 using the idea of the
 above activity.
- 3. Make believe some of the children are various animals in pens & others are human visitors, what would the animals talk about?

as facilitating transportation,

ons, popu	lation growth, Discipline Area La	nguage Arts
isure time	e have a great Subject La	nguage Arts
	and use and Problem Orientation	Population Grade K-1
ation den		TMO DVDEDIENOES
JECTIVES	SUGGESTED LEARN	ING EXPERTENCES
udent a list a trip. en will ipate a ion. we in the re enning r zoos? d a how	I. Student-Centered in class activity A. Classroom activities 1. Have children make believe he is one of the animals he knows and tell: a. Where he lives b. Where he wishes he could live c. Why he is there d. How he helps man or other animals	II. Outside Resource and Community Activities A. Outside activities 1. Do necessary preparing for a bus field trip. a. Letters b. Phone calls c. Money needed d. List of what is to be observed or accomplished on the trip e. Discussion of how one should behave
he	2. Make a bulletin board	2. After the trip to a
ussion	using the idea of the above activity.	recreational area, the teacher will lead a
y chose.	3. Make believe some of the	discussion using all or
<u>ed</u> .	children are various animals in pens & others are human visitors, what	some of these questions: a. Why did we go to the trout ranch?
lngs to	would the animals talk about?	b. Why do other people go? c. When is the trout ranch open to the public? Why?
		 d. Why do people from far away come here? e. Where do these people come from? f. Why do we like these people to come here? g. Did these people always come from (cont.)

18

Resource and Reference Materials Publications:

Continued and Additional Suggested Learning II. (cont.)

Green Bay, Milwaukee, etc.? Why are now?

- h. Do these people bring something we
- i. Do these people bring something we (Pollution)
- j. What else happens because these pe (Reads, materials for building, foo 3. Write a story about their trip.

Audio-Visual:
Pictures of what is done in recreational areas

Community:

Resource unit such as: Park Zoo Trout ranch Swimming area Water skiing area Snowmobiling area Fishing ponds Boating area

Continued and Additional Suggested Learning Experiences II. (cont.)

Green Bay, Milwaukee, etc.? Why are they coming now?

- h. Do these people bring something we need? (Money)
- i. Do these people bring something we don't need? (Pollution)
- j. What else happens because these people come north? (Roads, materials for building, food)
- 3. Write a story about their trip.

.als

C 8. Cultural, economic, social, and N political factors determine status Discipline Area E of man's values and attitudes Subject T toward his environment. Problem Orientation BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Cognitive: Through re-Student-Centered in class I. corded description, demonactivity strate their awareness of 1. Read poem, "Abigail's Fingers" to class. nature and by listening to other descriptions, demonstrate their ability to respect another person's ideas. Affective: Notice and appreciate and describe Atems in their environment through the sense of touch. Share with 59-70-0135-1 others. Skills to be Learned Observation Oral expression Tactile awareness Listening

II

al, economic, social, and

factors determine status

Discipline Area

Language Arts

values and attitudes

Subject

Language Arts

Cultural

Problem Orientation Attitudes

Grade K

ORAL OBJECTIVES Through reription, demonr awareness of by listening to iptions, demone ability to ther person's

s environment.

Notice and and describe eir environthe sense are with

Learned sion reness

SUGGESTED LEARNING EXPERIENCES Student-Centered in class I. activity 1. Read poem, "Abigail's Fingers" to class.

Outside Resource and II. Community Activities

1. Have class go outside, schoolyard or nearby park. Feel and touch those things which are touchable. (Stones, grass, bugs, weeds, bark)

2. Have tape recorder along. (More than one, if possible.) Children can describe how these things feel.

3. Later in the classroom, the children can listen to the tape. Maybe could think of music they listen to that would sould like their descriptions.

Continued and Additional Suggested Lear

Resource and Reference Materials

Publications:
Fingers Are Always Bringing Me News
by Mary O'Neill.

Audio-Vienal:

Community:

Materials Continued and Additional Suggested Learning Experiences

Project - 59-70-0135-1 Title III ESEA

C	10. Short-term economic gains may
0	
N	produce long-term environmental
C	
E	losses.
P	,
T	

Discipline Area Lar

Subject

Lar

Problem Orientation

SUGGESTED LEARN

BEHAVIORAL OBJECTIVES

Cognitive: The children will identify the necessities for life on a space ship by drawing or cutting pictures of the needed supplies for a trip in space.

Affective: Children will support the idea that the space ship is a limited ecosystem which can be compared to earth in the amount of time it can sustain life.

Skills to be Learned Mental imagery Critical judgement Possible alterations Oral skills Motor skills Analogy - Earth is like a space ship

I. Student-Centered in class activity

- A. Classroom
 - Teacher diagrams on boa along with class question.
 - a. Let's look at a space ship.
 - b. What would be in it?\
 (Astronauts)
 - c. They are going out in space. What will they to stay alive? (Air, food, water, goenergy & fuel)
 - d. Can a car go without
 - e. Can they stay out in for a year? Why not? (Samll space limited air, food, water & gomust be carried within ship)
 - f. How long do you think will last? (Food, air for 2 weeks. Go-power week)
 - g. What will happen? (As will die)
 - 2. The children will draw out pictures of food, at which are needed for the trip.



economic gains may Discipline Area Language Arts rm environmental Subject Language Arts Conservation Problem Orientation of Resources Grade SUGGESTED LEARNING EXPERIENCES BJECTIVES I. Student-Centered in class ildren will activity ssities A. Classroom ce ship by l. Teacher diagrams on board g pictures along with class questions plies for & discussion. a. Let's look at a space ren will that ship. b. What would be in it? a limited (Astronauts) an be c. They are going out in in the space. What will they need can to stay alive? (Air, food, water, go-power, energy & fuel) ned d. Can a car go without gas? e. Can they stay out in space nt for a year? Why not? ions (Samll space - limited - All air, food, water & go-power must be carried within the is like a ship) f. How long do you think it will last? (Food, air, water for 2 weeks. Go-power for 1 week) g. What will happen? (Astronauts will die) 2. The children will draw or cut out pictures of food, air & water which are needed for the space

II. Outside Resource and Community Activities

trip.

Resource and Reference Materials Continued and Additional Suggested I Publications:

Audio-Visual:

Community:



Continued and Additional Suggested Learning Experiences ials



ENER Title III - 59-70-0135-1 Project I-C-E

10. Short-term economic gains may produce long-term environmental C losses. P ${f T}$ BEHAVIORAL OBJECTIVES Cognitive: Children will experience direct results of poor & wise use & poor & good planning in a classroom situation. Affective: Children will offer their responses to "Save Today for Tomorrow", Skills to be Learned Oral skills. Time limit planning Critical judgements Listening

Discipline Area Langu

Subject

Langu

Problem Orientation

SUGGESTED LEARNING activity

A. Classroom

1. How many have ever been to a pot-luck supper or dinner? What is it for? (We take one thing & share many, in process of this activity.) Example - Mother says we will go to the potluck & shw will take a fruit cocktail cake with nuts & chocolate chips. the cake was baked Sat. evening & you ate it for a breakfast snack Sunday morning, there would be no cake & no time to bake another, so you cannot go to the pot-luck.

2. How many days a week do we come to school? (5 days make

up one school week)

3. I am going to give you enough crackers today (Monday) to last you a school week. You are to keep them in your box 8 each day, you will take the amount of crackers we ordinariget with our milk break. Remem we are going to get 10 cracker just enough for 2 at each (con

ERIC

rm economic ga	ins may	. ·					
-term environm	nental	Discipline Area	Langu	age Arts	5		
		Subject	Langu	age Arts	<u> </u>		
		Problem Orienta	tion	Food	Grade	<u>K</u>	
L OBJECTIVES		SUGGESTED L	EARNING	EXPERIE	ENCES		
ildren will ect results use & poor	I. Student-Cactivity A. Classro	entered in class		ĮI	. Outside Community	Resource a Activitie	
g in a lation.	1. How to a	many have ever b pot-luck supper r? What is it fo	óъ	;			
ildren will sponses to r lomorrow".	(We to many,	ake one thing & in process of t ity.) Example -	share his			·	
earned	says luck	we will go to th & shw will take	e pot- a				
anning ements	nuts the c	cocktail cake w & chocolate chip ake was baked Sa	s. If t.	:			
i :	break.	ng & you ate it fast snack Sunda ng, there would	У	; ; ;			
:	cake anoth	& no time to bak er, so you canno	е				
;	2. How i	e pot-luck. many days a week to school? (5 da	do we ys make	; ;			. •
	up on 3. I am crack	e school week) going to give y ers today (Monda	ou enou y) to	* * *			
	last ; are to	you a school wee o keep them in y	k. You our box	. &			

each day, you will take the

amount of crackers we ordinarily get with our milk break. Remember,

we are going to get 10 crackers, 24 at each (cont.)

Resource and Reference Materials Publications:	Continued
	Continued and Additional Suggested Lea I. (cont.) day's milk break. If we eat them all have any left for tomorrow? If you e day's usual amount, will you have en week? Have control group for demonst 2 each day. Let other plan on own & tally on board or chart.

Audio-Visual:

Community:



terials

Continued and Additional Suggested Learning Experiences

I. (cont.)

day's milk break. If we eat them all today, will we have any left for tomorrow? If you eat more than one day's usual amount, will you have enough to last all week? Have control group for demonstration that eat 2 each day. Let other plan on own & teacher keeps tally on board or chart.

ESEA Title III - 59-70-0135-1 Project I-C-E

10.	Snor	t-term	econ	omic	gains	may
_						_
prod	<u>uce</u>	long-te	erm ei	nviro	nment	<u>₹</u> Т
_						
loss	es.					

Discipline Area Langua

Subject

Langua Cons

Problem Orientation of F

BEHAVIORAL OBJECTIVES

Cognitive: Through answering questions about problems of over-usage in school, class-room & community, children will tell alternatives of good use & demonstrate environmental resources are limited & can run out without careful, planned use & distribution.

Affective: The students will create a puppet show pointing out situations of

Skills to be Learned
Creative writing
Critical thinking
Oral skills
Choosing good alternatives
Dramatization
Illustrating
Motor skills in making
puppets

wise & unwise use.

SUGGESTED LEARNING F
I. Student-Centered in class
activity

A. Classroom

1. Class story, skits or puppet shows as results of teacher-given example. For motivation, use one of the 3 examples below: a. Our janitor fills up the soap dispenser once a day before school with enough soap for the rest of the day, (if we use one pump when we wash our hands at each lavatory break & before lunch). Now some people here have kept pushing the dispensers & the soap has gone down the drain & not even used to clean hands. Someone used soap to wash mud off their shoes. Now if just half our class did this at morning recess, our soap would be all used up, & at dinner we would not be able to get hands clean & germs washed off well without soap. One half of (cont.) nomic gains may Discipline Area Language Arts environmental Subject Language Arts Conservation Grade K Problem Orientation of Resources SUGGESTED LEARNING EXPERIENCES CTIVES I. Student-Centered in class II. Outside Resource and answering activity Community Activities lems of A. Classroom ., class-1. Class story, skits or ildren puppet shows as results res of of teacher-given example. te For motivation, use one ces of the 3 examples below: ın out ınned a. Our janitor fills up the soap dispenser once lents a day before school show with enough soap for the rest of the day, (if we ons of use one pump when we wash our hands at each lavatory break & before lunch). Now some people here have kept pushing the dispensers & the matives soap has gone down the drain & not even usel to clean hands. Someone cing used soap to wash mud off their shoes. Now if just half our class did this at morning resess,

our soap would be all used up, & at dinner we would not be able to get

hands clean & germs

washed off well without soap. One half of (cont.)

Resource and Reference Materials Publications:

Audio-Visual:

Fnotographs of wild flowers & trees

Community:

Continued and Additional Suggested Lear I. (cont.)

our class would not even get their clean once during the day if this

1. Divide the class into groups & use too mu of something & that without anything for later use.

 Example - Using all red paper f decorations & nothing left for V

3. Teacher should point out that a are limited & can develop to out

b. If we had only 6 trees on our lan house & we cut them all down for f there wouldn't be any shade from h

 Discussion: What might this per there would be trees left & all Example - Each time one is used, planted, etc.

 Activity - Class could create a with individual pictures, the st poor management of trees.

c. If we pick all the flowers in a w they would look beautiful in our how two & then we have to throw them a some flowers growing in the woods, & grow again next year. Many people see & enjoy them. The government to keep people from picking too markilling them off altogether.

1. Discussion of best alternatives understanding.

2. Have students tell what they won some wild flowers would be left to Some answers - do not pick at all

2. Have children plan dialogue & constron a puppet show pointing out situationwise uses.

.

Materials

Continued and Additional Suggested Learning Experien as I. (cont.)

our class would not even get their hands really clean once during the day if this kept up.

1. Divide the class into groups & find other ways we use too much of something & that may leave us without anything for later use.

2. Example - Using all red paper for Christmas decorations & nothing left for Valentine's Day.

3. Teacher should point out that all mentioned uses are limited & can develop to outdoor environment.

b. If we had only 6 trees on our land or around our house & we cut them all down for fire wood in winter, there wouldn't be any shade from heat in summer.

1. Discussion: What might this person do to be sure there would be trees left & all year around? Example - Each time one is used, two could be planted, etc.

2. Activity - Class could create a story & illustrate with individual pictures, the story pointing out poor management of trees.

c. If we pick all the flowers in a woods in spring, they would look beautiful in our home for a day or two & then we have to throw them away but if we let some flowers growing in the woods, they would re-seed & grow again next year. Many people would be able to see & enjoy them. The government tried to find ways to keep people from picking too many wild flower: & killing them off altogether.

1. Discussion of best alternatives on grade level understanding.

2. Have students tell what they would do to make sure some wild flowers would be left to grow next year. Some answers - do not pick at all, put up fence, etc.

2. Have children plan dialogue & construct puppers to put on a puppet show pointing out situations of wise & unwise uses.

wers & trees



N produce long-term environmental C <u>losses.</u> P \mathbf{T} BEHAVIORAL OBJECTIVES Cognitive: Through dramatization by puppets, the children will show the long-Project I-C-E term result of careless rlanning. Affective: Children will voluntarily judge that short-term gains are not really gains at all in the long run. Skills to be Learned ESEA Title, III - 59-70-0135-1 Dramatization Discussion Audio skills

C 10. Short-term economic gains may

Discipline Area Langua
Subject Langua

Problem Orientation Cor

SUGGESTED LEARNING F
I. Student-Centered in class activity

A. Classroom

- 1. Read, Why the Bear Lost his Beautiful Tail to the children.
- 2. In a discussion, point out the fact that the bear want to get something quickly & did it in a foolish way suffering a loss which coul not be replaced.

3. Have the children tell what the bear could have done which would have been more sensible. (It should have been planned.)

4. The children can make puppets and act out the folktale.

ERIC

erm environmen	al Discipline Area Language Arts	
	Subject Language Arts	
	Problem Orientation Conservation Grade K-1	
BJECTIVES	SUGGESTED LEARNING EXPERIENCES	
igh dramati- s, the ow the long-	I. Student-Centered in class activity Community Activ A. Classroom	
areless Aren will The that short- The treally The long run.	 Read, Why the Bear Lost his Beautiful Tail to the children. In a discussion, point out the fact that the bear wanted to get something quickly & did it in a foolish way suffering a loss which could not be replaced. 	•
	3. Have the children tell what the bear could have done which would have been more sensible. (It should have been planned.) 4. The children can make puppets and act out the	* . I.

ERIC Full Text Provided by ERIC

economic gains may

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Resource and Reference Materials

Publications:
Story:
Why the Bear Lost his Beautiful

Continued and Additional Suggested Lear

Audio-Visual:

Community:



ce Materials Continued and Additional Suggested Learning Experiences

Beautiful

C 11. Individual acts, duplicated N or compounded, produce significant Discipline Area Langua E environmental alterations over time. Subject Τ Problem Orientation Co BEHAVIORAL OBJECTIVES Cognitive: Dramatize either the story of Charlottes' activity Web or Smokey, the Bear. A. Classroom Affective: If I left the soap in the sink & the dripping water dissolved all the soap, how could we get our hands clean? on Charlotte Skills to be Learned Discussion & analysis of story Organization of story Planning ideas 59-70-0135 ingenuity.) Notor skills choice ı (Parts of plot)

SUGGESTED LEARNING I. Student-Centered in class

Prose

- 1. Read the book, Charlotte's Web to the children and ther have an oral discussion:
 - a. Limited situation
 - b. Relate Wilbur's dependence
 - c. Charlotte's decision
 - d. Charlotte's sacrifice for her friends. (Wilbur's life depends on Charlotte'
 - e. Charlotte's other alternatives & effects of
- 2. Class story: story cards.
- 3. Work on shadow boxes depicting any of the parts of the above mentioned.
 - a. Done in stand up figures inside a cut out cereal bo
 - b. Cover the outside of box.
 - c. Display with a bulletin board with explanation of scenes.
- 4. This can also be dramatized (in skits, child planned) to show the plot & interaction

Title

ESEA

acts, duplicated produce significant Discipline Area Language Arts alterations over time. Subject Prose (Fiction) Problem Orientation Conservation Grade K OBJECTIVES SUGGESTED LEARNING EXPERIENCES tize either I. Student-Centered in class II. Outside Resource and rlottes' activity Community Activities ne Bear. A. Classroom left the 1. Read the book, Charlotte's & the Web to the children and then issolved have an oral discussion: v could a. Limited situation clean? b. Relate Wilbur's dependence on Charlotte ned c. Charlotte's decision alysis of d. Charlotte's sacrifice for her friends. (Wilbur's story life depends on Charlotte's ingenuity.) e. Charlotte's other alternatives & effects of choice 2. Class story: story cards.

- (Parts of plot)
 a. Done in stand up figures
 inside a cut out cereal box.
- b. Cover the outside of box.

depicting any of the parts of the above mentioned.

3. Work on shadow boxes

- c. Display with a bulletin board with explanation of scenes.
- 4. This can also be dramatized (in skits, child planned) to show the plot & interaction,

(cont.)

Resource and Reference Materials Publications:

Charlotte's Web
Smokey, the Bear

Audio-Visual:
Smokey, the Bear Film

Community:

Continued and Additional Suggested Le

I. (cont.)

& reaction of characters in story

5. Read the story, Smokey, the Bear a. Have oral discussion. Facts al

Smokey, the Bear. b. Make poster & pictures with fi

c. Watch film, Smokey, the Bear.

d. Learn the song, Smokey, the Be Problem Focused:

Charlotte's Web - Individual's attinfluences his surroundings & environments of care

Continued and Additional Suggested Learning Experiences

I. (cont.)

& reaction of characters in story.

5. Read the story, Smokey, the Bear. Play the record, too.

a. Have oral discussion. Facts about the background of Smokey, the Bear.

b. Make poster & pictures with fire prevention captions.

c. Watch film, Smokey, the Bear. 4 1/2 mii , B&W.

d. Learn the song, Smokey, the Bear.

Problem Focused:

Charlotte's Web - Individual's attitude affects & influences his surroundings & environment.

Smokey, the Bear - Effects of carelessness with fire.

C 12. Private ownership must be N regarded as a stewardship and E should not encroach upon or fielate T the individual right of others. BEHAVIORAL OBJECTIVES Cognitive: Child Will demonstrate by group & individual actions that their classmates rights must be respected. They solved problems through group consideration & action. Affective: A child will show by his social activities in a classroom that private ownership must be regarded

Skills to be Learned

35

59-70-01

tle

ESEA

as a stewardship & must not

individual right of others.

encroach upon or violate the

Planning
Oral skills
Dramatization
Motor skills
Following directions
Demonstration
Sharing knowledge with
others

Discipline Area Langu

Subject

Drama

Problem Orientation St

SUGGESTED LEARNING

I. Student-Centered in class activity

A. Classroom

- 1. Play acting & dramatization involving certain given situations. Skits showing:
 - a. Two or three children in a group to take a toy & act out what may when one owns a toy & must share it.
 - b. When there is two toys for three children.
 - c. Two children have two pin wheels amongst a group of five. (In dramatizing, two will not share or two will share with two others and one cannot get one) A sixth child comes with knowledge how to make one & shows all how to construct them so now each can have one.
- 2. The teacher & class can have a discussion about the skits and the ideas they show.
- 3. The children can construct their own pin wheels.

ERIC PROVIDENCE PROVIDENCE OF THE PROVIDE OF

32

ownership must be a stewardship and Discipline Area Language Arts ncroach upon or viclate Subject Dramatization al right of others. Problem Orientation Stewardship Grade K L OBJECTIVES SUGGESTED LEARNING EXPERIENCES ild will I. Student-Centered in class II. Outside Resource and group & activity Community Activities ions that A. Classroom es rights 1. Play acting & dramatited. They zation involving certain s through given situations. Skits ation & showing: a. Two or three children child will . in a group to take a cial activities toy & act out what may that private when one owns a toy & be regarded must share it. ip & must not b. When there is two toys or violate the for three children. ht of others. c. Two children have two pin wheels amongst a earned group of five. (In dramatizing, two will not share or two will share with two others and one cannot get one) ections A sixth child comes with knowledge how to make one edge with & shows all how to construct them so now each can have one. 2. The teacher & class can have a discussion about the skits and the ideas they show.

3. The children can construct

their own pin wheels.

Resource and Reference Materials Continued and Additional Sug

Audio-Visual:

Each child should have:
5 inch square of paper
pin
bead or cut off straw to use
pencil with eraser

Community:



ve:

ERIC Full Text Provided by ERIC

aw to use

3.5

PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as neede

In commenting on each episode used in your class, you may wifermat. Please feel free to adapt it and add more pages. Let comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences
 A. In Class:
 - B. Outside & Community Activities
 - IV. Suggested Resource & Reference Materials (specific suggestions & comments)





PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

on each episode used in your class, you may wish to duplicate this suggested feel free to adapt it and add more pages. Let us know all your critiques and ive and positive.

Objectives

e:

loped

earning Experiences

& Community Activities

esource & Reference Materials aggestions & comments)



ED055919

Project I - C - E

INSTRUCTION - CURRICULUM - ENVI

SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts Grade 1

Produced under Title III E.S.E.A. PROJECT I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Rober Rober Georg



- C - E INSTRUCTION - CURRICULUM - ENVIRONMENT

ENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

E AREA Language Arts Grade 1

under Title III E.S.E.A. -C-E chools in CESA's 3-8-9 Street , Wisconsin 54301 -4338

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



PREFACE

If you wish to excite students about their environment, help of over a hundred teachers, year long meetings, a summer worksh ecologists, this guide means realistic, developed aid for you. which have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are deserto plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know you to adapt, adopt, or use. Be design, the range of suggestions mentation and usage are even wider. Many episodes are self-or others can be changed in part or developed more keenly over

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning The reasons are simple. No guide has all the answers unless viewed in the context of your classroom situation. I give it a triple reading, check over the resources listed, m prime your students, and seek help. The Project personnel a knowledgement page stand ready to aid your efforts. Feel fre

4. The Project Resource Materials Center serves all CESA 3, 8, private. We will send available materials pre-paid. Call f

visit. Phone 432-4338.

5. Check often the Project ICF phy in your school libr Center materials. Please o subsestions, comments, or ad

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scrat suggestions on the episode pages or use the attached evaluat lected in late May next year and will be used in our revision reactions and suggestions -- negative and positive. Please not in the episodes may refer to specific, local community resou cases, individual school districts and teachers will have to stitutes. A list of terms pertinent to the episodes is belo

7. Ecologists and other experts have simplified the issue--surv Creation's beauty and complexity -- often noted as the work of and human energy to save. A year's work by a hundred of you gesture. Without you, their work will crumble, and so might let us live to think, feel, and act in harmony with our worl

3. APWI means Acceptable Performance Will Includé (labels a

4. EPA - Environmental Problem Area.



T. Cognitive means a measurable mental skill, ability, or pro 2. Affective refers to student attitudes, values, and feeling

PREFACE

excite students about their environment, help is ready. Thanks to the efforts teachers, year long meetings, a summer workshop, university consultants and guide means realistic, developed aid for you. Please note the following ideas ed teachers in writing and editing this guide.

supplementary in nature and the episodes are designed -- at appropriate instan-

nto existing, logical course content.

pisode offers suggestions. Since you know your students best, you decide what t, or use. Be design, the range of suggestions is wide; your chances for experiusage are even wider. Many episodes are self-contained, others open-ended, still changed in part or developed more keenly over a few weeks. These built-in

allow you to explore.

at you try the episodes and suggested learning experiences but please presons are simple. No guide has all the answers and no curriculum will work in the context of your classroom situation. Thus, before trying an episode, le reading, check over the resources list d, make mental and actual notes, dents, and seek help. The Project person of and teachers listed on the ackpage stand ready to aid your efforts. Feel free to ask their help in pre-planning. Source Materials Center serves all CESA 3, 8, and 9 area schools--public and ill send available materials pre-paid. Call for any help, materials, or to 432-4338.

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other experts have simplified the issue--survival--yours, mine, our students, aty and complexity--often noted as the work of a genius--will take our genius by to save. A year's work by a hundred of your fellow teachers is a saving but you, their work will crumble, and so might we all--literally. Instead,

think, feel, and act in harmony with our world.

Editorial Board rans a measurable mental skill, ability, or process based on factual data. Fers to student attitudes, values, and feel ngs.

acceptable Performance Will Include (labels a cognitive or mental performance.)



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P oject 59-70-0135-1 ESEA TIULE III

C Energy from the sun, the basic source

N of all energy, is converted through

Discipline Area

E plant photosynthesis into a form all

Subject

T living things can use for life pro-

Problem Orienta

BEHAVIORAL OBJECTIVES
Cognitive: The child will
show the effects of the
wind and the sun by participating in a dramatization of the fable, acting
the parts of the wind and
sun. The child will recall
two ways the sun helps or
harms us.

Affective: The children questions about the sun as stimulated by the teacher.

Skills to be Learned Listening

Promote sensory image of how sun and wind feel and sound.

Vocabulary

SUGGESTED L.

I. Student-Centered in claactivity

1. What are fables?

2. Reading the fable, "The Sun & the Wind."

3 Discuss difference between hot sunny days and cold windy days.

4. Dramatize the fable.

5. Set up questions as:
Who was the strongest?
What can the sun and
wind do for plants?

6. Summarizing the concept hat sometimes the sun in wind help us and some times they harm us: each child do an experiment a blow balloon till it pursts, melt butter in the sun, dish of water in such show evaporation.

sun, the basic source

ed through	Discipline A	rea	Langua	ge Art:	3		
a form all	Subject	المنبينين الماد المستدان	Langua	ge Art:	5	·	(Managan
life pro-	Problem Orie	ntation	Energy	Use	Grade _	1	
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		CTSS					
,			Com	munity	ACCIVIT	cies	
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1							
1 -							
	•	and					
		1					
5. Set up	questions as	:					
Who was	the stronges	t?					
What ca	n the sun and	}		•	.,		
wind do	for plants?		,			.•	
6. Summar	izing the con	cept					• • •
that so	metimes the s	un			•		
and win	d help us and	some-			•		
times t	hey harm us:	each					
child d	o an experime	nt as-		·			
blow ba	lloon till it						
bursts,	melt butter :	in the	•				
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	a form all life processes. I. Student activity l. What a l. Readin Sun & t life processes. I. Student activity l. What a life processes. Sun & t life processes. I. Student activity life processes.	a form all Subject life pro- Problem Oriencesses. SUGGESTE I. Student-Centered in activity 1. What are fables? 2. Reading the fable, Sun & the Wind." 3 Discuss difference tween hot sunny days cold windy days. 4. Dramatize the fable 5. Set up questions as Who was the stronges What can the sun and wind do for plants? 6. Summarizing the conthat sometimes the stand wind help us and times they harm us: child do an experimental blow balloon till it bursts, melt butter	a form all Subject life pro- Problem Orientation cesses. SUGGESTED LEARNI I. Student-Centered in class activity 1. What are fables? 2. Reading the fable, "The Sun & the Wind." 3 Discuss difference between hot sunny days and cold windy days. 4. Dramatize the fable. 5. Set up questions as: Who was the strongest? What can the sun and wind do for plants? 6. Summarizing the concept that sometimes the sun and wind help us and sometimes they harm us: each child do an experiment asblow balloon till it bursts, melt butter in the sun, dish of water in sun	a form all Subject Langua life pro- Problem Orientation Energy cesses. SUGGESTED LEARNING EXPE I. Student-Centered in class activity Commodition of the fable, "The Sun & the Wind." 3 Discuss difference between hot sunny days and cold windy days. 4. Dramatize the fable. 5. Set up questions as: Who was the strongest? What can the sun and wind do for plants? 6. Summarizing the concept that sometimes the sun and wind help us and sometimes the sun and wind help us and sometimes they harm us: each child do an experiment asblow balloon till it bursts, melt butter in the sun, dish of water in sun	a form all Subject Language Arts life pro- Problem Orientation Energy Use cesses. SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity In the sun & the Wind." Sun & the Wind." Discuss difference between hot sunny days and cold windy days. Language Arts SUGGESTED LEARNING EXPERIENCES II. Outside In Community Community Community A Discuss difference between hot sunny days and cold windy days. Language Arts Language Arts Energy Use Community Community Community Community Sun & the Wind." Discuss difference between hot sunny days and cold windy days. Language Arts Energy Use Community Community	a form all Subject Language Arts life pro- Problem Orientation Energy Use Grade cesses. SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity Community Activity 1. What are fables? 2. Reading the fable, "The Sun & the Wind." 3. Discuss difference between hot sunny days and cold windy days. 4. Dramatize the fable. 5. Set up questions as: Who was the strongest? What can the sun and wind do for plants? 6. Summarizing the concept that sometimes the sun and wind help us and sometimes they harm us: each child do an experiment asblow balloon till it bursts, melt butter in the sun, dish of water in sun	a form all Subject Language Arts life pro- Problem Orientation Energy Use Grade 1 cesses. SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity Community Activities 1. What are fables? 2. Reading the fable, "The Sun & the Wind." 3 Discuss difference between hot sunny days and cold windy days. 4. Dramatize the fable. 5. Set up questions as: Who was the strongest? What can the sun and wind do for plants? 6. Summarizing the concept that sometimes the sun and wind help us and sometimes they harm us: each child do an experiment asblow balloon till it bursts, melt butter in the sun, dish of water in sun

ERIC Full Text Provided by ERIC

Resource and Reference Materials ublications: Fable - "Sun and the Wind"
"Who Has Seen the Wind," by Rosetti "The Wind," by R. L. Stevenson. udio-Visual: Calendar Thermometer orepe-paper streamer Electric fan Pictures Catalogs, to cut pictures from that show how we dress for different weather. Film(strip) on seasons ommunity:

ERIC

Continued and Additional Suggested Learning Expe

Continued and Additional Suggested Learning Experiences

39

C 2. All living organisms interact among

N themselves and their environment,

C

E forming an intricate unit called an

P

bird.

T ecosystem.

Discipline Area Langua

Subject

Langua

Problem Orientation Ec-

BEHAVIORAL OBJECTIVES

Cognitive: The students will learn to recognize some animals by name through pictures. The student will learn to recognize some birds by name through pictures. The student will write an informational article on the needs of his choice of animal &

Affective: As the student participates in learning & doing, he will seek other examples of animals and how they live in their environment.

Skills to be Learned
Listening for information
Writing an informational
article
Looking for a bird &
naming it

SUGGESTED LEARNING

I. Student-Centered in class activity

A. Class:

1. Read: The Kitchen-Window Squirrel by Harold Longman Let above introduce:

a. Animals of neighborhoodb. Birds of neighborhood

2. List wild animals (mammal of neighborhood & find pictures of adults & babie Make bulletin board, learn to recognize names.

3. Have animal information read by teacher. Children write an informational article for one or more animals. A booklet could be made of stories.

4. Have a class period in which each child has a chance to tell when he saw one of these animals.

5. Discuss how many of these animals live here--why not more or less.

6. Put up bird pictures, had children learn to recognithem by picture. Have personal charts made & had child check if he sees bit each day of week. (cont.

ERIC

Title



isms interact among

r environment, e unit called an CTIVES ts will me ıgh : will ome birds ires. The n inforthe needs nal & tudent ning & other and יו nation ional

Discipline Area Language Arts

Language Arts Subject

Problem Orientation Ecosystem Grade

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Class:
 - 1. Read: The Kitchen-Window Squirrel by Harold Longman. Let above introduce: a. Animals of neighborhood b. Birds of neighborhood
 - 2. List wild animals (mammals) of neighborhood & find pictures of adults & babies. Make bulletin board, learn to recognize names.
 - 3. Have animal information read by teacher. Children write an informational article for one or more animals. A booklet could be made of stories.
 - 4. Have a class period in which each child has a chance to tell when he saw one of these animals.
 - 5. Discuss how many of these animals live here--why not more or less.
 - 6. Put up bird pictures, have children learn to recognize them by picture. Have personal charts made & have child check if he sees bird each day of week. (cont.)

- II. Outside Resource and Community Activities A. Outside activity
 - 1. Take field trips to school yard & neighboring woods to see birds.
 - 2. Write a letter to ask permission to visit neighbor's woods.
 - a. Take a field trip & list all animal life seen.



Resource and Reference Materials

Publications:

Book:

The Kitchen-Window Squirrel, by Harold Longman

Continued and Additional Suggested

I. (cont.)

7. As a culminating activity, har about how living organisms reasegin with a question such as:
a. What would happen if the sky other day would come out whi

Audio-Visual:

Community:

ials

, by

Continued and Additional Suggested Learning Experiences

I. (cont.)

7. As a culminating activity, have a discussion about how living organisms react to each other. Begin with a question such as:

a. What would happen if the skunk we smelled the other day would come out while we have recess?

C 3. Environmental factors are limiting N on the numbers of organisms living Discipline Area in their influence, thus, each Subject E wi T environment has a carrying capacity. Problem Orientatio BEHAVIORAL OBJECTIVES Cognitive: The student will give an imaginative activity talk telling what happened to him as a frog, the student will find rhyming words in a poem. Affective: Each child decides if all frog eggs hatched and all frogs lived would there be room in the pond? Skills to be Learned Giving an imaginative talk Listening for rhyming words Making accurate observations of the developing frog eggs.

SUGGESTED LEAF Student-Centered in class

1. Read & enjoy poem "Twenty Froggies" by George Cooper

- 2. Have children bring in frog eggs for observation. Have one aquarium with a few eggs and one aquarium overstocked with eggs. Hav children watch results.
- 3. Have children give talks in which they make believe they are tadpoles or littl frogs and tell what happened to himself.
- 4. Discuss what would happen if all the eggs hatched & the frogs lived in the ponds around school. Include food, shelter, space, enemies.
- 5. Make chart of the life cycle of a frog or where frogs live.
- 6. Learn to sing "Twenty Froggies."
- 7. Make a bulletin board \about frogs.

i

Title

ESEA

factors are limiting

factors a	are limiting						
organism	ns living	Discipline Area		uag	Arts		
Luence, th	nus, each	Subject	<u>ьа.</u> Рог	uag∈ lati			
a carrying	g capacity.	Problem Orientatio	*			Grade	1
JECTIVES		SUGGESTED LEAR	NING	PER	ENCES		
ident native nappened the rhyming nild g eggs ogs lived m in the	activity 1. Read Froggi 2. Have frog e Have o few eg overst childr	t-Centered in class	II	Outs Commu l. Ha lib	ide Renity .ve ch	esource Activit ildren to find frog.	ies look in
<u>ed</u> tive	in whi they a frogs pened	ch they make believed re tadpoles or little and tell what hap-to himself.	.e				
ming bser- eloping	if all & the ponds Includ space, 5. Make cycle frogs 6. Learn Froggi	n to sing "Twenty .es." a bulletin board					

Resource and Reference Materials
Publications:
Poems:

Continued and Additional Suggested Le

Twenty Froggies by George Cooper.

Audio-Visual: Aquarium Frog eggs

Community:

terials Continued and Additional Suggested Learning Experiences

Cooper.



C 4. An adequate supply of	pure	
O N water is essential for li	fe. Discipline Area	Langu
C E	Subject	Langı Adeqı
P T	Problem Orientation _	Wate
BEHAVIORAL OBJECTIVES	S GGESTED LEARNIN	G EX
Cognitive: The learner will tell a story about going without water. The	I. Student-Centered in class I activity 1. Show pictures of the many	C.

learner will list ways
he uses water at school.
Affective: The class will
offer ways in which they
use water. The list will
be written on board.

Skills to be Learned
Listing what could not
be done if there was no
water

Giving a talk about the need of water Story-telling 1. Show pictures of the many places in the world where water is found (ocean, lake, pond, river)

2. Show pictures of where there isn't water (deserts tundras)

3. Make bulletin board of above pictures.

4. To see if water is essential, the children will not use any water for a given amount of time.

5. Children will list all things they were not able to do because of not being able to use water.

6. Children will tell story about

a. how they felt when they couldn't use waterb. why he needs water

7. The children could try to figure out a lunch menu or meal which would not use water.

oure____

Discipline Area Language Arts

Subject Language Arts

Adequate

Problem Orientation Water Supply Grade K-1

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - 1. Show pictures of the many places in the world where water is found (ocean, lake, pond, river)
 - 2. Show pictures of where there isn't water (deserts tundras)
 - 3. Make bulletin board of above pictures.
 - 4. To see if water is essential, the children will not use any water for a given amount of time.
 - 5. Children will list all things they were not able to do because of not being able to use water.
 - 6. Children will tell story about
 - a. how they felt when they couldn't use water
 - b. why he needs water
 - 7. The children could try to figure out a lunch menu or meal which would not use water.

II. Outside Resource and Community Activities

Resource and Reference Materials Publications:

Continued and Additional Suggest

Audio-Visual:

pictures of where
water is found & where
water is not found

Community:

Materials | Continued and Additional Suggested Learning Experiences

	C 5. An adequate supply of cle O N essential because most organ C E depend on oxygen, through re	nisms	Discipline Are	ea <u>Language</u> <u>Language</u>
	P T to release the energy in the	eir food.	Problem Orien	tation <u>Clean</u> :
ESEA Title III - 59-70-0135-1 Project I-C-E	BEHAVIORAL OBJECTIVES Cognitive: Understand what air pollution is by watching experiments. Affective: Each child will be given the opportunity to contribute to a class board list, any odor which has been brought to him by moving air. Skills to be Learned Increase acuity in observance	I. Student activity A. Activ 1. Ai 2. Fa 3. Ki 4. Ba	SUGGESTED -Centered in c ities: rsprays ns	LEARNING EXP



supply of clean air is

use most organisms		Disciplir	ne Area <u>I</u>	anguage Arts	3		
en, through respiration,		Subject <u>L</u>		anguage Arts	nguage Arts		
energy in the	eir food.	Problem (Prientatio	n <u>Clean air</u>	Grade	1	
OBJECTIVES		SUGGE	ESTED LEAF	NING EXPERIE	ENCES		
rstand what by watching child will ortunity to class board hich has him by	2. Fa 3. Ki 4. Ba	ities: rsprays ns	in class	Commun A. Mak penci out is curre pollu B. Cov or ca chees a tre	il eraser. I in air to sh ent. Air mov uted air com ver a pictur ardboard fra se cloth. Ha	ties & pin onto ake them now air yes & mes to us. re frame ame with ang it in e the things	

Resource and Reference Materials Publications:
Who Has Seen The Wind

Continued and Additional Sugges

Audio-Visual:
Kites, balloons, paper
Cheese cloth & frame Plastic bottle-cigarette

Community:

·

e Materials

Continued and Additional Suggested Learning Experiences

te



ESEA Withe III - 59-70-0135-1 Project I-C-E

C 6. Natural resources are not equally O N distributed over the earth or over

Discipline Area

C E time and greatly affect the geographic

Subject

T conditions and quality of life.

Problem Orientation F

BEHAVIORAL OBJECTIVES

Cognitive: The student will listen to a story & show understanding by planting his seeds and comparing plant life in different areas, giving reasons why the plant life is different.

Affective: Teacher makes list on chalk board. Children will place a W or S before name of resource (Apple, Banana) that has to be shipped into our area either in summer and/or winter.

Skills to be Learned
Carrying out an individual project
Comparing (land areas, requirement of different plant life)
Organizing a talk
Classifying

SUGGESTED LEARN I. Student-Centered in class | activity

- 1. Read "Seeds & More Se Is' by Millicent Selsam.
- 2. Plant seeds & care for them.
- 3. Give talk in about a week's time telling why or why not the seeds grew (too much or too little water)
- 4. Discuss Could parts of the world be like reasons in No. 3.
- 5. Make bulletin board showing swamps, deserts, good farm land, woods.
- 6. Show pictures of many kinds of vegetables, fruits & cereals. Choose those that grow in community. Where do others grow? Why?
- 7. Make a booklet of:
 - a. Fruits growing in community & those shipped in all the time or part of the time.
 - b. Same as (a) but use vegetables.
 - c. Same as (a) but with flowers.
- 8. Have an exhibit of No. 7.



rces are not equally

the earth or over

Discipline Area

Language Arts

affect the geographic

Subject

Comparison & Discussion

uality of life.

Problem Orientation Resource Usage Grade

JECTIVES udent tory & by and fe in iving ant life

r makes d. Chil-W or S ource at has our mer

eđ. ndividual

reas, ferent

SUGGESTED LEARNING DEPERIENCES I. Student-Centered in class activity

- l. Read "Seeds & More Seeds" by Millicent Selsam.
- 2. Plant seeds & care for them.
- 3. Give talk in about a week's time telling why or why not the seeds grew (too much or too little water)
- 4. Discuss Could parts of the world be like reasons in No. 3.
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- 7. Make a booklet of:
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 - b. Same as (a) but use vegetables.
 - c. Same as (a) but with flowers.
- 8. Have an exhibit of No. 7.

Outside Resource and II. Community Activities

1. Visit schoolyard or neighborhood areas which show swamps, drainage ditches, sand hills, etc. On trip, compare what grows in each area.

Resource and Reference Materials Publications:

Seeds & More Seeds by Millicent Selsam.

Audio-Visual:

Seeds - peas, garden beans & soybeans best.
Containers in which to plant
Pictures of swampy areas, deserts,
good farm land, woods.
Pictures Tresh fruits, vegetables,
flowers
Real fruits & vegetables for a
display

Community:

49

Continued and Additional Suggested



rials Continued and Additional Suggested Learning Experiences
ent

serts,

C 7. Factors such as facilitating transportation,

N economic conditions, population growth, Discipline Area Language

C E and increased leisure time have ε great Subject

Language

II.

Protlem Orientation Popu T influence on changes in land use and centers of population density. S GESTED LEARNING E. BEHAVIORAL OBJECTIVES

Cognitive: The student will help to form a list of objectives for a trip. Affective: Children will voluntarily participate in a discussion on a teacher made question. Example: Why don't we leave the animals in the woods where they are happy instead of penning them up in parks or zoos? After they have had a poll of hands to show Who wants to pen the ânimals, have discussion on the reasons they chose.

Skills to be Learned Write letters List necessary things to be accomplished Writing stories

- I. Student-Centered in class activity
 - A. Classroom activities
 - 1. Have children make believe he is one of the animals he knows and tell:
 - a. Where he lives
 - b. Where he wishes he could live
 - c. Why he is there
 - d. How he helps man or other animals
 - 2. Make a bulletin board -using the idea of the above activity.
 - 3. Make believe some of the children are various animals in pens & others are human visitors, what would the animals talk about?

s facilita	ating tramsportation,	
	ation growt Discipline Area Lar	nguage Arts
		nguage Arts
	nd use and Problem Orientation	Population Grade K-l
ition dens	i + v	INO EVERTENCES
ECTIVES	SUGGESTED LEARN	ING EXPERIENCES
ident i list i trip. en will ipate a ion. we in the re enning r zoos? d a how he ussion y chose. ed ings to	I. Student-Centered in class activity A. Classroom activities 1. Have children make believe he is one of the animals he knows and tell: a. Where he lives b. Where he wishes he could live c. Why he is there d. How he helps man or other animals 2. Make a bulletin board using the idea of the above activity. 3. Make believe some of the children are various animals in pens & others are human visitors, what would the animals talk about?	II. Outside Resource and Community Activities A. Outside activities 1. Do necessary preparing for a bus field trip. a. Letters b. Phone calls c. Money needed d. List of what is to be observed or accomplished on the trip e. Discussion of how one should behave 2. After the trip to a recreational area, the teacher will lead a discussion using all or some of these questions: a. Why did we go to the trout ranch? b. Why do other people go? c. When is the trout ranch open to the public? Why? d. Why do people from far away come here? e. Where do these people come from? f. Why do we like these people to come here? g. Did these people always
	1	come from (cont.)

ERIC Full Teast Provided by ERIC

Resour and Reference Materials
Publicat 3:

Continued and Additional Suggested Learn

II. (cont.)

Green Bay, Milwaukee, etc.? Why now?

h. Do these people bring something

- i. Do these people bring something (Pollution)
- j. What else happens because these (Roads, materials for building,
- 3. Write a story about their trip.

Audio-Visual:

Pictures of what is done in recreational areas

Community:

Resource unit such as:

Park

Zoo

Trout ranch Swimming area Water skiing area Snowmobiling area

Fishin nonds

Boat ng . ea

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erials

Continued and Additional Suggested Learning Experiences

II. (cont.)

Green Bay, Milwaukee, etc.? Why are they coming now?

- h. Do these people bring something we need? (Money)
- i. Do these people bring something we don't need? (Pollution)
- j. What else happens because these people come north? (Roads, materials for building, food)
- 3. Write a story about their trip.

C S. Cultural, economic, social, and N political factors determine status Discipline Area E of man's values and attitudes Subject T toward his environment. Problem Orientation Attitude SUGGESTED LEARNING EXPER BEHAVIORAL OBJECTIVES Cognitive: The student Student-Centered in class I. II. will write a letter asking activity permission and will choose 1. Read "The Clean Brook" one of the following to tell by Margaret Bartlett. what happened on the trip: 2. After field trip: write, discuss, or list Write or discuss about things. "I Liked The Field Trip" Affective: How will you or "I Did Not Like The help to have a pretty Field Trip." place as we have one 3. Write or discuss: What Can I Do To Enjoy today? The Out-of doors More Often Skills to be Learned a. learn more about it b. go to the woods more often 59-70-0135-1 Letter writing c. preserve it Making lists of necessary d. don't pollute it things to be done 4. Identify specimens taken Identifying specimens on field trip. Writing cown one's thoughts 5. Write story of what on a specified topic was done on trip in Writing a story in sequence sequential order.

Language

Language Land Use

Outs

Commu

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, social, and

Discipline Area Language Arts ermine status ttitudes Subject Language Arts Land Use Problem Orientation Attitudes Grade it. VES SUGGESTED LEARNING EXPERIENCES Outside Resource and II. Student-Centered in class cing Community Activities activity ose 1. Read "The Clean Brook" 1. Field trip by Margaret Bartlett. o tell a. Write for permission to rip: use private readway, privately 2. After field trip: Write or discuss about owned area, & permission from "I Liked The Field Trip" parent to go. b. Collect jars & boxes for u or "I Did Not Like The Field Trip." specimens. 3. Write or discuss: c. Discuss behavior on trip What Can I Do To Enjoy d. Teacher point out on trip: The Out-of doors More Often? 1) plant life a. learn more about it 2) water life b. go to the woods more often 3) quietness 4) what noise does to area c. preserve it sary 5) have all sit around & d. don't pollute it 4. Identify specimens taken discuss what is seen on field trip. 6) Have children, with paper oughts 5. Write story of what & crayens, draw something in was done on trip in quen**c**e 7) Eat lunch and proceed to classroom sequential order.

Resource and Reference Materials

Continued and Additional

Publications:

Book:

The Clean Brook by Margaret Bartlett.

Audic-Visual:

Community:

any outdoor area which children may enjoy:

- a. wooded area
- b. lake
- c. river
- d. pond



Materials Continued and Additional Suggested Learning Experiences
garet

children



ESEA Title III - 59-70-0135-1 Project I-C-E

C 8. Cultural, economic, social, and N political factors determine status E of man's values and attitudes T toward his environment. BEHAVIORAL OBJECTIVES Cognitive: The child will observe what happens to the resource snow under given circumstances by taking part in experiments that cause this change. a. Meiting snow b. Spring rain Affective: Is Water best standing still or moving? Skills to be Learned Make trips to nearby creeks and rivers Observation of experiment Demonstrate a simple experiment Listen for information Oral reports on observations

status Discipline Area I

S Subject I

Problem Orientation W

SUGGESTED LEARNING

SUGGESTED LEARNING

SUGGESTED LEARNING

I. Student-Centered in class II

activity

1. Demonstration of what
happens to snow.

2. Activities: Two pans in
room:
a: One filled with snow
1) Evaporates
b. Soil covered with snow

first - time it takes - what happens
3. As snow melts in spring, water finds its way to our

1) earth absorbs moisture c. Keep chart of which melts

a. box filled with dirt.
soil piled high on one
side. Pour water on high
side to show how water
finds its way to lower
levels (creeks).

creeks & rivers

- 4. Flooding caused by swelling of rivers:
 - a. Sand box made into level land, rivers, valleys, & high elevations.
- 5. People lose homes from floods.
 - a. Make milk carton houses (for city) & trees for villages. Pour water (Cont.

conomic, social, and ors determine status s and attitudes ironmen**t**,

Discipline Area

Language Arts

Subject

Language Arts

Problem Orientation

Attitudes Toward

Water Grade

OBJECTIVES child t happens snow under ces by xperiments change.

ater best ? moving?

rned earby creeks

experiment mple experi-

mation observations

SUGGESTED LEARNING EXPERIENCES Student-Centered in class activity

- 1. Demonstration of what happens to snow.
- 2. Activities: Two pans in room:
- a: One filled with snow
 - 1) Evaporates
- b. Soil covered with snow
- 1) earth absorbs moisture
- c. Keep chart of which melts first - time it takes - what happens
- 3. As snow melts in spring, water finds its way to our creeks & rivers
 - a. box filled with dirt. soil piled high on one side. Pour water on high side to show how water finds its way to lower levels (creeks).
- 4. Flooding caused by swelling of rivers:
- a. Sand box made into level land, rivers, valleys, & high elevations.
- 5. People lose homes from floods.
- a. Make milk carton houses (for city) & trees for villages. Pour water (Cont.

II. Outside Resource and Community Activities.

Resource and Reference Materials

Continued and Additional Sugges

Publications:
News Pilot (Scholastic)

I.(Cont.)

swiftly into the rivers.
to milk carton houses and
b. Make two trees - cut one
one down from top and sli
6. Draw pictures in sequence

to become water.

Audio-Visual:

pans with soil & water

sand box

newspaper pictures

posters - the inspring beauty of

our natural environment

Film - "Winter Snows"

Community:

terials

Continued and Additional Suggested Learning Experiences

I.(Cont.)

swiftly into the rivers. Watch what happens to milk carton houses and trees.

- b. Make two trees cut one up from bottom, one down from top and slip together to stand.
- 6. Draw pictures in sequence of how snow melts to to become water.

uty of

	N produce long-term environmental C				
	E losses. P				
	BEHAVIORAL OBJECTIVES				
Project I-C-E	Cognitive: Through dramati- zation by puppets, the children will show the long- term result of careless planning. Affective: Children will voluntarily judge that short- term gains are not really gains at all in the long run.	I. a A			
Title III - 59-70-0135-1 P	Skills to be Learned Dramatization Discussion Audio skills				
A Ti					

Short-term economic gains may

Discipline Area Lang

Lang

Problem Orientation

SUGGESTED LEARNING
I. Student-Centered in class activity

Subject

A. Classroom

- 1. Read, Why the Bear Lost his Beautiful Tail to the children.
- 2. In a discussion, point of the fact that the bear was to get something quickly did it in a foolish way suffering a loss which connot be replaced.
- 3. Have the children tell we the bear could have done which would have been more sensible. (It should have been planned.)
- 4. The children can make puppets and act out the folktale.

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erm economic gains may Discipline Area Language Arts g-term environmental 🦠 Subject Language Arts Problem Orientation Conservation Grade K-1 AL OBJECTIVES SUGGESTED LEARNING EXPERIENCES hrough dramati-I. Student-Centered in class II. Outside Resource and pets, the activity Community Activities show the long-A. Classroom f careless 1. Read, Why the Bear Lost his Beautiful Tail to the hildren will children. udge that short-2. In a discussion, point out e not really the fact that the bear wanted in the long run. to get something quickly & did it in a foolish way. Learned suffering a loss which could not be replaced. 3. Have the children tell what the hear could have done which would have been more sensible. (It should have

been planned.)

folktale.

4. The children can make puppers and act out the

Resource and Reference Materials Continued and Additional Suggest

Publications:
Story:
Why the Bear Lost his Beautiful
Tail

Audio-Visual:

Community:



Materials Continued and Additional Suggested Learning Experiences

Beautiful



	C 11. Individual acts, duplic O or compounded, produce sign C environmental alterations of P T BEHAVIORAL OBJECTIVES	ver time.		Language ation Litte LEARNING EX
ESEA Title III - 59-70-0135-1 Project I-C-E	Cognitive: During a week's period the children will make a graph & put checks behind their names as to how many pieces of litter they have picked up. Give a short oral report on the effect of their own private clean-up campaign. Affective: On the way to a from school, the child will watch for litter. This will be reported on the next day with ideas of what should have been done with the litter. Skills to be Learned Observing Speaking Vocabulary enrichment Litter · pollution & street cleaners	I. Student-activity	Centered in cla	SS II. Out CommA. O
o IC			5 8	



s, duplicated duce significant Discipline Area Language Arts Subject erations over time. Language Arts Problem Orientation Littering Grade 1 CTIVES SUGGESTED LEARNING EXPERIENCES II. Outside Resource and a week's I. Student-Centered in class Community Activities activity will checks A. Outside classroom 1. Yard trip for children to as to Litter see the articles that have . Give been dropped by careless on the people. private 2. Field trip to a park or picnic ground to arouse feelings in children about way to child environment used by the er. This public. the 3. Reports after they return of to school. en 4. Drawings of the devastation that was caused at park or picnic grounds. erit &

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Resource and Reference Materials

Continued and Additional Suggested Learning

Publications:

Smokey, the Bear, story & song
Keep Our World Clean, song sheet
available at CESA #9 Office
This Land is Your Land, song sheet

Audio-Visual:

TV - radio, newspaper articles to report on Conservation film

Community:

Neighborhood trips
Resource person from Conservation
Dept.
Pick up things on their way to
school as their contribution to
"Clean Up"

rials Continued and Additional Suggested Learning Experiences ng heet sheet .es ration to n to

ERIC

59

C 11. Individaul acts, duplicated N or compounded, produce significant E environmental alterations over time. BEHAVIORAL OBJECTIVES Cognitive: The student will learn how to properly use a telephone. The student will also discuss how our land should be treated & compare the past, present & future. Affective: Using pictures of land areas which have been harmed or left unharmed, each child will explain what caused the good or bad situation. Skills to be Learned Learning to make a polite telephone call Time larses Speech skills: Introduction Clarity Closing

Discipline Area Languag

Subject

Languag Environ

II.

Problem Orientation Caus

SUGGESTED LEARNING E I. Student-Centered in class activity

A. Classroom

- 1. Discuss telephone etiquette.
- 2. Place a telephone call to get permission to walk on neighbor's field.

ESEA

59-70-0135-1

60

. acts, duplicated

, produce significant

Discipline Area Language Arts

alterations over time.

Subject

Language Arts

Environmental Change

Problem Orientation Caused by Man Grade 1

OBJECTIVES student will operly use a student will v our land ed & compare nt & future. ng pictures nich have explain what

left unharmed,

arned ke a polite

or bad

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

- A. Classroom
 - 1. Discuss telephone etiquette.
 - 2. Place a telephone call to get permission to walk on neighbor's field.
- II. Outside Resource and Community Activities
 - A. Out of class
 - l. Visit a farm field.
 - 2. Sit down at field's edge & talk about:
 - a. What was this like when your grandfather was a little boy or when Indians were here?
 - b. What has been done to land since then?
 - c. Why has this been done?
 - d. What will this land be like in 10 or 50 vears?
 - e. How can it be made into poor land?
 - f. How can it be kept a good land?
 - g. Why do we want it to be kept as a good crop land?
 - 3. Have children bring in pictures of land areas which have been harmed by man & lead which has been bot good by man.
 - 4. Have chaldren give oral Paports on what they observed on their trip.



Resource and Reference Materials Continued and Additional Suggested Lear Publications:

Audio-Visual:

Community:



terials | Continued and Additional Suggested Learning Experiences



Private ownership must be 12. N regarded as a stewardship and E should not encroach upon or viclate

Discipline Area Language Ar

Subject

Dramatizati

T the inclvidual right of others

Problem Orientation

Publi Propert

Οī

Con

II.

BEHAVIORAL OBJECTIVES Cognitive: The learner will dramatize either how bcoks should or should not be taken care of, and will list school property which should be cared for. Affective: The student will adopt better ways for caring for school property.

Skills to be Learned Dramatizing how books should or should not be usea.

Learning to take turns in discussions.

SUGGESTED LEARNING EXPE Student-Centered in class activity

- 1. The children will look at the trees through the windows and then the teacher will list ways in which they are used stressing paper making which becomes their textbooks.
- 2. Show filmstrip, How to Take Care of Books.
- 3. Have children dramatize the correct or incorrect way to handle books.
- 4. Discuss why school books should be cared for
- 5. From discussion in number four, list other school property witch should be cared for; children may want to tell how to care for each article listed.
- 6. Discuss how our taking care of property now will help our future. (Include with this, that if we mar our books, will the first graders (cont.)

e ownership must be a stewardship and Discipline Area Language Arts Subject encroach upon or violate Dramatization ual right of others. Problem Orientation Public Grade 1 Property AL OBJECTIVES SUGGESTED LEARNING EXPERIENCES he learner Student-Centered in class II. Outside Resource and e either how activity Community Activities or should not 1. The children will look of, and will at the trees through the roperty which windows and then the ed for. teacher will list ways he student in which they are used tter ways stressing paper making r school which becomes their textbooks. 2. Show filmstrip, How to Take Care of Books. Learned how books 3. Have children dramatize hould not the correct or incorrect way to handle books. take turns 4. Discuss why school books ons. should be cared for 5. From discussion in number four, list other school property which should be cared for; children may want to tell how to care for ea a article listed. 6. Discuss how our taking care of property now will help our future. (Include with this, that if we mar our books. will the first graders (cont.)

ERIC

Resource and Reference Materials Publications:

Continued and Additional Suggest

I. (Cont)

coming next year enjoy reading

7. If children are interested, do other things (parks, roads) f pay taxes.

8. Some children may want to tel places where the public goes,

by taxes.

Audio-Visual: How to Take Care of Books, filmstrip

Community:



rence Materials

Continued and Additional Suggested Learning Experiences

- I. (Cont)
 - coming next year enjoy reading as much as we have?
 - 7. If children are interested, discuss where we use other things (parks, roads) for which our parents pay taxes.
 - 8. Some children may want to tell about actions in places where the public goes, but are not aid for by taxes.

f Books,



PROJECT 1-C=E

Episode Evaluation Form (Reproduce or duplicate as needed)

In commenting on each episode used in your class, you may wish to format. Please feel free to adapt it and add more pages. Let us knowness - negative and positive.

- I. Behavioral Objectives
 A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences
 A. In Class:
 - B. Outside & Community Activities
 - IV. Suggested Resource & Reference Materials (specific suggestions & comments)





duplicated-Discipline Area Language Arts e significant English ions over time. Subject Grade 11 Problem Orientation Recycling SUGGESTED LEARNING EXPERIENCES VES II. Outside Resource and I. Student-Centered in class Community Activities activity гy A. Carry on a bottle drive A. Introduce the essentials ill in the community followof group discussion or ing the distribution of planning atepublicity materials. B. Introduce an environ-B. The signing on a pledge mental cause (glass could be used to create disposal, paper disposal) community support. C. Make classroom committees C. Distribute pledge responsible for: pa-(petition) to stores, 1. Writing handout sheets m, village board, etc. to 2. Writing newspaper ing show support for articles he exclusion of non-return-D. Check sources for ideas is able bottles. which could be used to D. Evaluate community increase community impact reaction. 1. Perceivable responses sion 2. Any changes vity

Resource and Reference Materials

Continued and Additional Su

Publications:

The English Language

Ref. Group discussion and planning
Current issues of weeklys
Reader's Guide to Periodical

Literature
Speaking by Doing
National Textbook Co.
Skokie, Illinois
(Shows all different speech
formats)

Audio-Visual:

Community:



Continued and Additional Suggested Learning Experiences



C 12. Private ownership must be reO garded as a stewardship and should
C not encroach upon or violate

Discipline Area <u>Langu</u>

Subject ____ Engli

Problem Orientation L

BEHAVIORAL OBJECTIVES

T the individual right of others.

Cognitive: In groups, members have an opportunity to listen, speak, take notes, and organize their thoughts. Smaller groups often allow more informal approach. Both chairmen, and finally the teacher, can quiz groups on their notes on organization of thoughts. Affective: At end of chairmen's reports, entire class might be tested by an essay question, on their beliefs regarding the concept as it appears in these writings. An open-ended discussion after final reports is another possibility.

Skills to be Learned
Listening
Speaking
Note-taking
Organizing notes

SUGGESTED LEARNING

1. Student-Centered in class I

activity

- A. Divide the class into groups. Each group (of 6-8 students) could read 3 of the 4 named works. Using a chairman as spokespan, each group could develop the concept as it exists in each of the three works read.
- E. Group meetings in which each member of each group should be encouraged to express orally, and in writing, his ideas about Keane's, Melville's, Clark's, and Updike's concepts of ownership.
- C. Conduct a chairman's meeting to sum up findings.
- D. Chairmen report to class on findings of various groups.

ownership must be re-Discipline Area Language Arts tewardship and should Subject English upon or violate Problem Orientation Literature l right of others. SUGGESTED LEARNING EXPERIENCES OBJECTIVES I. Student-Centered in class II. Outside Resource and roups, mem-Community Activities activity portunity to A. Bring in speakers A. Divide the class into take notes. groups. Each group (of knowledgeable about eir thoughts. 6-8 students) could literature to speak often allow read 3 of the 4 named pproach. about different authors. works. Using a chairman and finally as spokespan, each n auiz group could develop the notes on concept as it exists in thoughts. each of the three works nd of rts, entire read. tested by B. Group meetings in which on, on each member of each group egarding should be encouraged to express orally, and in it appears writing, his ideas about gs. An ussion Keane's, Melville's, orts is Clark's, and Updike's lity.

arned

findings. D. Chairmen report to class on findings of various groups. 4.13.18.

concepts of ownership. C. Conduct a chairman's

meeting to sum up

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Frade 11

Resource and Reference Materials

Continued and Additional

Publications:

Pigeon Feathers and Other Stories
John Updike
Faucett Books, 1959.

The Field
J. B. Keane

Bartleby the Scriver Herman Melville

The Ox Bow Incident
Walter VanTilky Clark

Audio-Visual:

Collages by students, based on their mental pictures of Updike's stories and their relationship to the concept, that private ownership should not disturb others'rights.

Community:

Outside speakers with emphasis on literature, perhaps a local person who is a writer, a minister (specifically, one who might recognize Melville's Calvinistic overtones), or a different English teacher.

e Materials

Continued and Additional Suggested Learning Experiences

her Stories

based on
of Updike's
ationship to
vate
disturb

emphasis a local , a , one who

, or a her.

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PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

In commenting on each episode used in your class, you may wish t format. Please feel free to adapt it and add more pages. Let us kno comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences
 A. In-Class:
 - B. Cutside & Community Activities:
 - IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

each episode used in your class, you may wish to duplicate this suggested free to adapt it and add more pages. Let us know all your critiques and and positive.

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ing Experiences

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Project I - C - E

INSTRUCTION - CURRICULUM - ENVIRONMEN

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A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts GRADE 12

Produced under Title III E.S.E.A. PROJECT I&C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Robert Warp Robert Kell George Howl

INSTRUCTION - CURRICULUM - ENVIRONMENT

ROGRAM FOR ENVIRONMENTAL EDUCATION

Language Arts GRADE 12

tle III E.S.E.A.

n CESA's 3-8-9

sin 54301

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



PREFACE

If you wish to excite students about their environment, hel of over a hundred teachers, year long meetings, a summer work ecologists, this guide means realistic, developed aid for you which have directed teachers in writing and editing this guid 1. This guide is supplementary in nature and the episodes are ces--to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know you

to adapt, adopt, or use. By design, the range of suggesti mentation and usage are even wider. Many episodes are sel others can be changed in part or developed more keenly over

possibilities allow you to explore.

Now we urge that you try the episodes and suggested learni The reasons are simple. No guide has all the answer urless viewed in the context of your classroom situation. give it a triple reading, check over the resources listed prime your students, and seek help. The Project personnel knowledgement page stand ready to aid your efforts.

4. The Project Resource Materials Center serves all CESA 3, 8 private. We will send available materials private. We will send available materials pre-paid. Call

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school li

Center materials. Please offer suggestions, comments, or service may grow. Let's help each other. Involve yourself with the guide by reacting to it with scr suggestions on the episode pages or use the attached evalu lected in late May next year and will be used in our revis reactions and suggestions -- negative and positive. Please in the episodes may refer to specific, local community rescases, individual school districts and teachers will have stitutes. A list of terms pertinent to the episodes is be

7. Ecologists and other experts have simplified the issue--su Creation's beauty and complexity -- often noted as the work and human energy to save. A year's work by a hundred of y gesture. Without you, their work will crumble, and so mig let us live to think, feel, and act in harmony with our wo

3. APWI means Acceptable Performance Will Include (labels

4. EPA - Environmental Problem Area



^{1.} Cognitive means a measurable mental skill, ability, or 2. Affective refers to student attitudes, values, and feel

PREFACE

co excite students about their environment, help is ready. Thanks to the efforts sed teachers, year long meetings, a summer workshop, university consultants and is guide means realistic, developed aid for you. Please note the following ideas ected teachers in writing and editing this guide.

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g into existing, logical course content.

e episode offers <u>suggestions</u>. Since you know your students best, you decide what dopt, or use. By design, the range of suggestions is wide; your chances for experted usage are even wider. Many episodes are self-contained, others open-ended, still be changed in part or developed more keenly over a few weeks. These built-in es allow you to explore.

that you try the episodes and suggested learning experiences but please preceasons are simple. No guide has all the answers and no curriculum will worked in the context of your classroom situation. Thus, before trying an episode, riple reading, check over the resources listed, make mental and actual notes, students, and seek help. The Project personnel and teachers listed on the acked page stand ready to aid your efforts. Feel free to ask their help in pre-planning. Resource Materials Center serves all CESA 3, 8, and 9 area schools--public and will send available materials pre-paid. Call for any help, materials, or to be 432-4338.

the Project ICE Bibliography in your school library for available Resource ials. Please offer suggestions, comments, or advice -- at any time -- so that this

grow. Let's help each other.

self with the guide by reacting to it with scratch ideas, notes, and extended on the episode pages or use the attached evaluation format, which will be colte May next year and will be used in our revisions. We sincerely want your desuggestions—negative and positive. Please note that some resources listed des may refer to specific, local community resources or conditions. In such idual school districts and teachers will have to adopt local or available sublist of terms pertinent to the episodes is below.

nd other experts have simplified the issue--survival--yours, mine, our students, eauty and complexity--often noted as the work of a genius--will take our genius ergy to save. A year's work by a hundred of your fellow teachers is a saving thout you, their work will crumble, and so might we all--literally. Instead,

to think, feel, and act in harmony with our world.

means a measurable mental skill, ability, or process based on factual data.
refers to student attitudes, values, and feelings.
s Acceptable Performance Will Include (labels a cognitive or mental performance.)
ironmental Problem Area

ERIC

ACKNOWLEDGEMENTS: The following teachers and consultants part of the Supplementary Environmental Education

CESA #3 Eugene Anderson, Peshtigo Laura Berken, Oconto Falls Willard Collins, Crivitz John Cowling, Niagara Nicholas Dal Santo, Pembine Robert Dickinson, Oconto Ann Fuhrmann, Marinette Lillian Goddard, Coleman William Harper, Lena Robert Herz, St. James (L) Ester Kaatz, Wausaukee Michael Kersten, Suring Douglas Koch, Cath. Central Donald Marsh, Bonduel David Miskulin, Goodman Don Olsen, Shawano Elmer Schabo, Niagara Marion Wagner, Gillett Ruth Ward, Crivitz George Kreiling, Marinette Marg. McCambridge, White Lake Virginia Pomusl, White Lake Gailen Braun, Lena Kay DePuydt, Gillett Lousene Benter, Gillett

CESA #8 Lowell Baltz, Weyauwega William Behring, Lourdes David Bell, Neenah Marie Below, Clintonville William Bohne, Kimberly Bob Church, Little Chute Ronald Conradt, Shiocton Lee Halberg, Appleton Ronald Hammond, Hortonville Jerome Hennes, Little Chute Barbara Huth, Menasha Darrell Johnson, Hortonville Bernadyne King, Neenah Harold Lindhorst, St. Martin (L) John Little, Winneconne Gordon Rohloff, Oshkosh William Schaff, St. Joseph Doris Stehr, Mt. Calvary (L) Carolyn Shills, New London Sister Dorothy, Xavier Clarence Trentlage, Freedom Mike Hawkins, Xavier Beth Hawkins, Xavier Ed Patschke, Menasha Connie Peterson, St. Martin (L) Dallas Werner, Kaukauna Ron Schreier, Omro

Consultant Staff
Frank Tate, UW-Marinette Ednajean Purcell, OSU
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The following teachers and consultants participated in the development of the Supplementary Environmental Education Guide:

, Peshtigo conto Falls , Crivitz iagara nto, Pembine n, Oconto arinette , Coleman Lena . James (L) usaukee , Suring ath. Central onduel Goodman ano iagara Gillett Ltz , Marinette ge, White Lake , White Lake na llett

Lowell Baltz, Weyauwega William Behring, Lourdes David Bell, Neenah Marie Below, Clintonville William Bohne, Kimberly Bob Church, Little Chute Ronald Conradt, Shiocton Lee Halberg, Appleton Ronald Hammond, Hortonville Jerome Hennes, Little Chute Barbara Huth, Menasha Darrell Johnson, Hortonville Bernadyne King, Neenah Harold Lindhorst, St.Martin (L) John Little, Winneconne Gordon Rohloff, Oshkosh William Schaff, St. Joseph Doris Stehr, Mt. Calvary (L) Carolyn Shills, New London Sister Dorothy, Xavier Clarence Trentlage, Freedom Mike Hawkins, Xavier Beth Hawkins, Xavier Ed Patschke, Menasha Connie Peterson, St.Martin (L) Dallas Werner, Kaukauna Ron Schreier, Omro

CESA #8

CESA #9 Joan Alioto, Denmark Angela Anthony, Gibralter Harold Baeten, St. Norbert Anthony Balistreri, Howard-Suamico Lillian Berges, Seymour Carmella Blecha, Green Bay Joan Charnetski, Sevastopol Billie Feichtinger, Green Bay Rev. B. Frigo, Abbot Pennings Robert Haen, Luxemburg-Casco Russ Hanseter, Seymour Paul Kane, Ashwaubenon Roy Lukes, Gibralter Sister Anna, St. Philips Jim Maki, Sturgeon Bay Joyce Mateju, Algoma Richard Minten, W. DePere Gloria Morgan, Linsmeier Private George Pederson, Southern Door Alan Schuh, Pulaski Thomas Weyers, Cathedral Ruth Windmuller, Green Bay James Wiza, DePere John Torgerson, Kewaunee Benjamin Roloff, Howard-Suamico Greg Schmitt, Cathedral John DeWan, Green Bay Emmajean Harmann, Sevastopol Ray Gantenbein, Green Bay David Bartz, Sturgeon Bay John Hussey, Green Bay

larinette Ednajean Purcell, OSU, UW-Marinette David West, Lawrence U.

Robert Cook, UWGB Dennis Bryan, UWGB

Sister Barbara, St. Bernard

Gillett

Energy from the sun, the basic source N of all energy, is converted through plant Discipline Area E photosynthesis into a form all living Subject Problem Oriental T things can use for life processes. SUGGESTED LEARNI BEHAVIORAL OBJECTIVES Cognitive: The student will Student-Centered in produce a film with voice class activity 1. Instruction in use of and/or music sound track "Super 8" comera. which illustrates that the sun is the source of all 2. Instruction in use of sound with "Super 8" energy. Affective: Using creative equipment... portrayal of the sun's effect 3. The "production team" the student will develop a is organized and instructed positive attitude and underby teacher. The production team will discuss the constanding of the sun's effects. cept and come up with 59-70-0135-1 ideas for a scenario deal-Skills to be Learned ing with how the sun affect Film making Narration of film life around them. 4. Each "production team" Ability to discover and capture on film, concrete mani-festations of ecological condevelops a "scenario outlin geared to the concept of th cepts. sun. Each "scenario outline" i analyzed and revised, first by student groups, finally by the teacher. 6. A "mock" take is made by one team as other team and

instructor observe.

9. Editing of film.

and revised. 8. "Shooting."

10. Adding second.

7. 'Mock take" is criticized

, the basic source Language Arts Discipline Area rted through plant English Subject orm all living Grade 12 Problem Orientation Energy processes. SUGGESTED LEARNING EXPERIENCES Outside Resource and II. Student-Centered in Community Activities II class activity 1. Instruction in use of "Super 8" camera. ıe 2. Instruction in use of sound with "Super 8" equipment. 3. The "production team" ffect is organized and instructed by teacher. The production derteam will discuss the confects. cept and come up with ideas for a scenario dealing with how the sun affects life around them. 4. Each "production team" capdevelops a "scenario outline" anigeared to the concept of the con-5. Each "scenario outline" is analyzed and revised, first by student groups, finally by the teacher. 6. A "mock" take is made by one team as other team and instructor observe. 7. "Mock take" is criticized and revised. 8. "Shooting." 9, Editing of film. 10. Adding sound.

Resource and Reference Materials

Publications:

Kodak's "How to Make a Movie" Magazine - Media and Methods "Fifteen One-Act Plays", Gore Vida1

"Famous T.V. Plays", Gore Vidal.

Audio-Visual: "Super 8" camera "Super 8" projector Projection Screen Sound equipment Editing equipment

Community:

Local theatre group or drama society.

Continued and Additional Suggested Learning

- I. (cont.)
 - 11. Viewing.
 - 12. Class evaluation of production and therein.

and a stable in the content of the

Continued and Additional Suggested Learning Experiences

(cont.)

11. Viewing.
12. Class evaluation of production and the ideas contained therein.

2. All living organisms interact among 0 Nthemselves and their environment, Discipline Area I forming an intricate unit called Subjectan ecosystem. Problem Orientatio BEHAVIORAL OBJECTIVES SUGGESTED LEAR Cognitive: Given the raw I. Student Centered in class data, the student is to activity discover the thesis inher-A. Present "raw" data ent in that data, and he is (See attached sheet). to state that thesis in sentence form, and he is to B. Students are to individually analyze the raw ect support that thesis in a data. formal essay. C. Students are to state Affective: To experience (in a single sentence) the the process of discovery, thesis which they have and from this experience, derived from their analysi begin to value the ability of the raw data. to synthesize. In short, D. Students are to write a each student should be able. brief formal essay in which not only to analyze data, they present the thinking but also to use (synthesize) which in their analysis of the data in an organized the raw data, led to the manner. conclusion (thesis) they individually formulated. Skills to be Learned Ev Class discussion of the Analysis of data various analyses of the Statement of thesis raw data. Composition of Supporting F. Suggestions for Raw Data Evidence in formal style 1. Wolf population on Isle Royale 2. Deer herds 3. Trees 4. Other items of the stuaent's choice

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ing organisms interact among and their environment, Discipline Area Language Arts intricate unit called Subject English Problem Orientation Pollution

ion Grade <u>12</u>

em. RAL OBJECTIVES ven the aw dent is to thesis inherlata, and he is thesis in n, and he is to thesis in a experience of discovery, s experience, e the ability e. In short, should be able, analyze data, use (synthesize) an organized

Learned
dava
f thesis
of Supporting
formal style

I. Student Centered in class activity

A. Present "raw" data (See attached sheet).

- B. Students are to individually analyze the raw data.
- C. Students are to state (in a single sentence) the thesis which they have derived from their analysis of the raw data.
- D. Students are to write a brief formal essay in which they present the thinking which in their analysis of the raw data, led to the conclusion (thesis) they individually formulated.

Ev Class discussion of the various analyses of the raw data.

F. Suggestions for Raw Data

1. Wolf population on Isle Royale

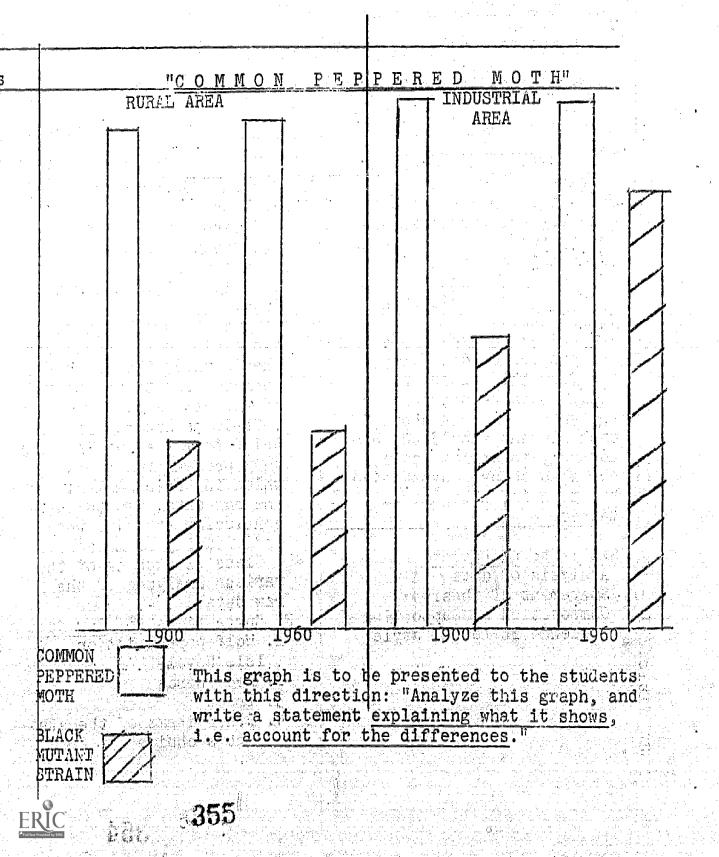
2. Deer herds

3. Trees

4. Other items of the stuaent's choice

SET Second Sheet

Resource and Reference Materials Publications: Invention and Topics: Or Where to Look for Something to Say, by Scott Elledge, p. 11. (Published by Commission on English of the College Entrance Examination Board) Wisconsin Dept. of Natural Resources Michigan Conservation Dept. Audio-Visual: Cc munity: Students each seek raw data to соммой tarer. present to class members. PEPPERED This graph is to be pr with this direction: HTOM write a statement expl BLACK i.e. account for the d MUTANT STRAIN



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3. Environmental factors are limiting

N on the numbers of organisms living

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E within their influence, thus, each

Subject

Engli

T environment has a carrying capacity.

Problem Orientation A

BEHAVIORAL OBJECTIVES

Cognitive: In modern drama, the student will be able to isolate actions of characters which are influenced by the area in which they live through their interviews and discussion of the problem. Affective: By researching and comparing the attitudes of people about city life, the student will find that man, through managing and mismanaging his environment, can indirectly alter his attitudes and his life style by advocating good management techniques.

Skills to be Learned

Interpretive reading skills Comparisons of actions in relationship to an ecological problem

Interviewing skills

- SUGGESTED LEARNING I. Student-Centered in class activity
 - A. The class will orally read the play Street Scene.
 - B. After reading, the class will discuss how the carrying capacity influenced the attitudes and actions of the characters.
 - C. Discuss how one person in such a close situation can influence the life of another.

ntal factors are limiting

rs of organisms living

Discipline Area Language Arts

influence, thus, each

Subject

English-Drama

has a carrying capacity.

Problem Orientation <u>Attitudes</u>

Grade 12

L OBJECTIVES modern drama,

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they live interviews and the problem.

researching and attitudes of

ity life, the ind that man,

ng and misnvironment,

alter his nis life style

good manage-

earned reading skills cactions in

an ecological

kills

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. The class will orally read the play Street Scene.
 - B. After reading the class will discuss how the carrying capacity influenced the attitudes and actions of the characters.
 - C. Discuss how one person in such a close situation can influence the life of another.

- II. Outside Resource and Community Activities
 - A. Interview people who have lived in a large city regarding their attitudes on city life.

Resource and Reference Materials

Continued and Additional Sugge

Publications:

Street Scene - Elmer Rice

Time of Your Life
William Saroyan

Washington Square Paperback,
publisher

Audio-Visual:

Community:
Members of the Community

Continued and Additional Suggested Learning Experiences Materials back, the grant of the grant and the control of the contr

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P T BEHAVIORAL OBJECTIVES Cognitive: To organize a newspaper campaign to draw attention to the need for 闰 solutions to problems drawing from an inadequate water treatment center. Affective: By getting the student actively involved in a civic problem that is immediate & relevant, he will understand the importance of pure water to his life as he researches the history of the city plant & discusses his findings. Skills to be Learned Ability to analyze data, to establish the crak of the matter, to effectively report findings

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4. An adequate supply of pure

water is essential for life.

Discipline Area Lan Subject Eng. Problem Orientation

SUGGESTED LEARNI I. Student-Centered in class activity

A. Research

- 1. History of the current city plant
- 2. Report the standards set for the city which the student resides.
- 3. Report present conditions to write a comparison.
- 4. Write the newspaper articles to support your campaign.

supply of pure Discipline Area Language Arts ial for life. English Subject Problem Orientation Treatment plant Grade 12 SUGGESTED LEARNING EXPERIENCES BJECTIVES I. Student-Centered in class ganize a activity gn to draw A. Research need for 1. History of the current olems city plant inadequate 2. Report the standards center. set for the city which etting the the student resides. involved sion. 3. Report present condiem that tions to write a elevant, comparison. nd the 4. Write the newspaper re water articles to support your campaign. center. istory t & ndings. rned vze data, the crux of effectively

II. Outside Resource and Community Activities

A. Interview city officials and residents to discuss the situation.

B. Take findings to the class with an oral report or set up a panel discus-

C. Tour the processing plant to get a first hand look. Write a report of your personal reaction.

D. Tour water treatment

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

The Sea Around Us, R. Carson
The Master Builder, Ibsen

Audio-Visual:

Community:
Resource people in the community
Water plant
City engineer
Doctors & health officials

Materials	Continued and Additional	Suggested Learning Experiences
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4 * * * 		
) 	特別(資本) 《四日本等於(古典) 《日本政治》(新華教) 西籍等議。	
		기가 가는 사람들은 그리고 보는 사람들이 되는 것이 되었다. 그 사람들은 사람들이 되었다. 기가 가는 사람들이 가는 하는 것이 되었다. 그는 것이 되었다. 그 것이 되었다. 그런데
als		



5. An adequate supply of clean air is N essential beause most organisms Discipline Area depend on oxygen, through respiration, Subject P T to release the energy in their food. Problem Orientatio BEHAVIORAL OBJECTIVES SUGGESTED LEAR Cognitive: Using the media I. Student-Centered in class of editorial writing the activity student will be able to 1. Present two pictures-one construct a sound logical with abundant clean air; th editorial based on a other with polluted air. Wh community problem. would be more conducive to Affective: The student will life? Why? demonstrate his understand-2. What problems are created ing that clean air is lack of clean air? - Discus essential for life by writ-3. Survey community for examp of air pollution. Research ing a letter to the editor urging the curbing an air examples for reasons why air pollution source. pollution is allowed. 4. Discuss in what ways this example creates other proble Skills to be Learned Determining community and why is it necessary in community to allow them to problems Writing of editorials pollute. Fvaluation of editorials 5. Write editorials or "letter the editor" urging the curb sources of air pollution in community. 6. Select the best paper and it to the local newspaper.

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supply of clean air is

ise most organisms

Discipline Area Language Arts

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Problem Orientation Clean Air

Grade

II. Outside Resource and

Community Activities

OBJECTIVES the media ting the able to d logical on a m. ir is

tudent will understandfe by writthe editor ng an air

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SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class

activity

1. Present two pictures-one with abundant clean air; the other with polluted air. Which would be more conducive to life? Why?

2. What problems are created by lack of clean air? - Discuss.

3. Survey community for example of air pollution. Research examples for reasons why air pollution is allowed.

4. Discuss in what ways this one example creates other problems and why is it necessary in this community to allow them to pollute.

5. Write editorials or "letters to the editor" urging the curbing of sources of air pollution in the community.

6. Select the best paper and submit it to the local newspaper.

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

Newspaper for examples of editorials.

Audio-Visual:

SMOG: The Air Pollution Game Environmental Pollution...Our World in Crisis - Ward's filmstrip

Community:

Editorial writer of local newspaper.

Materials Continued and Additional Suggested Learning Experience
of

..Our s film-

Game

1 news-

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C	6. Natural resources are not equally		
N	distributed over the earth or over	Discipline Area	<u> </u>
	time and greatly affect the geographic	Subject	<u>F</u>
P T	conditions and quality of life.	Problem Orientation	Re

Cognitive: Students will be able to take notes, to view things from others point of view, through listening to authorities on given subjects and thru their discussion.

Affective: Through discussion, students will become aware of different life styles & how natural resources shape these life styles by participating in an open-ended discussion

BEHAVIORAL OBJECTIVES

Skills to be Learned
Notetaking
Listening
Discussion techniques
Role-playing - seeing
things from various points
of view

involving every student.

SUGGESTED LEARNING
I. Student-Centered in class | II
activity

1. Student discussion in which some students (or all) might role-play Indian & white attitudes. Discussion would center on apparent differences in values systems of Indians & whites as illustrated in speakers' views, as seen on field trip.

s are not equally Language Arts Discipline Area e earth or over English Subject fect the geographic Problem Orientation Resource Usage Grade ity of life. SUGGESTED LEARNING EXPERIENCES TIVES Outside Resource and Student-Centered in class II. will Community Activities , to activity 1. Speaker on Indians' use 1. Student discussion in rsof land & students ask which some students (or all) h questions, take notes. might role-play Indian & ties 2. Speaker on white man's white attitudes. Discussion thru use of land - students ask would center on apparent questions, take notes. differences in values sysis-3. Field trip, together or tems of Indians & whites as 1 individually, to "areas" illustrated in speakers' rent (in nature) managed, basiviews, as seen on field ural cally by whites; to another life trip. area managed basically by ng in Indians. ion nt. ıg oints

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Resource and Reference Materials Publications:

The Next Hundred Years by Harrison Brown, Viking Press, 1957.

Audio-Visual:

Student-created collages of various people's use or misuse of land Pictures or slides taken on field trip Records on this area or problem

Community:

Speaker - Indian leaders, industry spokesman, DNR spokesman
Historical records - local library, including pictures of given areas, then & now.



Continued and Additional Suggested

<u>aterials</u>

Continued and Additional Suggested Learning Experiences

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essay.

C 7. Factors such as facilitating transportation,

N-economic conditions, population growth, Discipline Area Langu

E and increased leisure time have a great Subject

Engli.

T influence on changes in land use and centers of population density.

Problem Orientation Le.

BEHAVIORAL OBJECTIVES

SUGGESTED LEARNING

- I. Student-Centered in class activity
 - A. Classroom

1. Read novels pertaining to topics being discussed

- 2. Mock trial in which one or more students might be held & accused of some type of fundamental "heresy". e.g. The family is a worthless unit or the family is a very worth while institution.
- 3. 2 or 3 students do an opinion poll on some unsettling idea & then report to class.

4. Debate on "Whither mass society?"

5. Theme assignment - topic "How close are we to 1984"

6. Panel on "Creative Use of Leisure Time."

Cognitive: Students will work on their reading skills for characterization, theme... Students are afforded the chance to work on writing

skills-organization, argument, synthesis, conclusion, etc. Students work at listening carefully-taking notes. Check them against a playback of

the speaker's talk.

Affective: Students think about influences of mass society on their lives. These influences-e.g. of mass media-might be the subject. Students become more sophisticated concerning life styles especially if they are enabled to see middle,

upper & lower class of an

Skills to be Learned Reading for content, speed Writing-organization Listening-notetaking Standards in dress, politics such as facilitating transportation,

ditions, population growth, Discipline Area Language Arts

<u>ed leisure time have a great Subject</u>

English

changes in land use and opulation density.

Problem Orientation Leisure Time Grade 12

L OBJECTIVES

udents will reading skills zation, theme ...

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ation, argument,

clusion, etc. at listening

ng notes. Check playback of

talk.

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ir lives.

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they are

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earned

ontent, speed ization etaking dress, politics

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Classroom
 - 1. Read novels pertaining to topics being discussed.
 - 2. Mock trial in which one or more students might be held & accused of some type of fundamental "heresy". e.g. The family is a worthless unit or the family is a very worthwhile institution.
 - 3. 2 or 3 students do an opinion poll on some unsettling idea & then report to class.
 - 4. Debate on "Whither mass society?"
 - 5. Theme assignment topic: "How close are we to 1984?"
 - 6. Panel on "Creative Use of Leisure Time."

- II. Outside Resource and Community Activities
 - A. Outside classroom
 - 1. Students could interview various people by asking them specific questions such as:
 - a. Do you feel increased pressures in your life to conform? If so, why?
 - b. Do you feel people are prepared (formally or otherwise) to use increased leisure time creatively?

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

1984, George Orvell
Brave New World by Huxley
Walden II, B. F. Skinner

Audio-Visual:

Collages showing leisure time activities. Some emphasis might be put on "quality" of activities. Film:

Community:

Outside speakers:

Minister might talk on the church as an establishment tool Leader in industry could speak on shortened work week, attendant problems

daterials | Continued and Additional Suggested Learning Experiences

time s might ctivities.

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ERIC Full Text Provided by ERIC

C 8. Cultural, economic, social, and

political factors determine status

Discipline Area

E of man's values and attitudes

Subject

T toward his environment.

Problem Orientati

SUGGESTED LE!

BEHAVIORAL OBJECTIVES

Cognitive: Students can work on their reading skills analysis of social factors involved, can look at their writing techniques & work at verbalizing their social patterns' influences on people's lives.

Affective: Students should become aware that various sociological factors have influenced others & will influence their lives. Students might be given a choice of essay topics to write on.

Skills to be Learned

Reading Vriting Notetaking Organizing material Listening I. Student-Centered in class activity

1. Read one or more novels noted in publications. Entire class could read or work or class could be divided into groups resportible for discussing each novel.

a. Theme on topic such as slavery, physical or intellectual.

b. Have a panel or debate theme of the novel.

2. Dramatization of given scenes from novel e.g. death scene in Grapes of Wrath, or opening scene replete with sleepy husbar and wife in bathroom in Babbitt.

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C

ural, economic, social, and

al factors determine status Discipline Area Language Arts

s values and attitudes Subject English
Social
his environment. Problem Orientation Status Grade

SUGGESTED LEARNING EXPERIENCES

- VIORAL OBJECTIVES

 : Students can heir reading skills of social factors can look at their echniques & work izing their social influences on lives.
- : Students should are that various cal factors have dothers & will their lives.
- right be given a essay topics to

be Learned

ng ng material

- I. Student-Centered in class activity
 - 1. Read one or more novels noted in publications.
 Entire class could read one work or class could be divided into groups responsible for discussing each novel.
 - a. Theme on topic such as: slavery, physical or intellectual.
 - b. Have a panel or debate or theme of the novel.
 - 2. Dramatization of given scenes from novel e.g. death scene in Grapes of Wrath, or opening scene replete with sleepy husband and wife in bathroom in Babbitt.

II. Cutside Resource and Community Activities

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Resource and Reference Materials

Continued and Additional Suggested Learning

Publications:

The Grapes of Wrath by John Steinbeck.

The Bear by Wm. Faulkner.

Main Street and Babbitt by Sinclair
Lewis.

Audio-Visual:

Film - The Grapes of Wrath Collage - of people who make up all our Main Streets; of how the "curse" of slavery affects this land's culture (North & South) today.

Community:

Chamber of Commerce speaker (on some such "service-oriented" activity to espouse the causes of Main Street, U.S.A.

Speaker who might talk on the evils of finance capitalism.

Continued and Additional Suggested Learning Experiences

clair

C 9. Man has the ability to manage, N manipulate, and change his environment. BEHAVIORAL OBJECTIVES Cognitive: Given the position papers the student activity is to declare himself for either position A or B. Eased on his research of his stand or position, the student is to defend his stand verbally &/or in writing to other students in the class. Affective: Students should be able, through listening to others & through diligent research, to realize that the quality of his environment is something in which he must involve himself. The students' notes taken during discussion could be collected & evaluated by the instructor.

Skills to be Learned Literary analysis Researching an issue Defending a position, verbally or in writing Note taking

Discipline Area La

Subject

Problem Orientation

SUGGESTED LEARN

I. Student-Centered in class

A. Classroom

1. Two brief papers are presented by instructor Paper A - takes position that to solve technologi dilemma is to carry out further technological development. e.g. Buchmi Fuller's "Design Strate approach. Paper B - pre position of anti-technol individuals or groups. Cummings poems or Reich "The Greening of Americ

2. Students are asked to a stand for position A Students should researd their stand. (The number days used for research ontional.)

3. Students are either to debate (formally or inf or to write their posit essay form.

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the ability to manage,

, and change his

Discipline Area Language Arts

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SUGGESTED LEARNING EXPERIENCES

Problem Orientation Land Use

Grade

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RAL OBJECTIVES

Given the ers the student e himself for ion A or B. research of position, the o defend his ly &/or in ther students

Students should ough listening through diligent realize that of his environthing in which lve himself. ' notes taken ssion could be evaluated by or.

Learned alysis an issue position. r in writing I. Student-Centered in class activity

A. Classroom

- 1. Two brief papers are presented by instructor. Paper A - takes position that to solve technological dilemma is to carry out further technological development. e.g. Buchminster Fuller's "Design Strategy" approach. Paper B - present position of anti-technological individuals or groups. e.g. Cummings poems or Reich's "The Greening of America".
- 2. Students are asked to take a stand for position A or B. Students should research their stand. (The number of days used for research is optional.)
- 3. Students are either to debate (formally or informally) or to write their positions in essay form,

II. Outside Resource and Community Activities A. Invite a factory owner, conservation agent or a person from DNR to give a talk to class.



the ability to manage,

, and change his

Discipline Area Language Arts

Subject

English

SUGGESTED LEARNING EXPERIENCES

Problem Orientation Land Use

Grade 12

RAL OBJECTIVES

Given the ers the student e himself for ion A or B. research of position, the o defend his ly &/or in ther students

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A. Classroom

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- 3. Students are either to debate (formally or informally) or to write their positions in essay form.

II. Outside Resource and Community Activities A. Invite a factory owner, conservation agent or a person from DNR to give a talk to class.

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

Utopia er Oblivion, Buchminster Fuller

Progress is a Comfortable Disease,
The other poems by Cummings
The Greening of America, C. Reich
What Good are Pelicans For,
The Schrank, Media & Methods,
May, 1970, p. 32
Those Good New Days, G. Seaborg,
Saturday Review, March 6, 1971,
p. 52

Audio-Visual:

Magazines & news pictures

Films (available form I.C.E. office)

"Later...Perhaps"

"The Cifts"

Community:
I:R
Factory owner
Conservationist

Continued and Additional Suggested Learning Experiences rials ter sease, Reich org, 971, office)

N produce long-term environmental C \mathbf{E} losses. P BEHAVIORAL OBJECTIVES Cognitive: Small groups' work should aid students in developing tools of discussion, listening, note taking, and analyzing. Students should Affective: become more aware of the effects (both good & bad) of our using our environment for economic gain by taking an active part in a symposium discussion centered around the biologic, social, economic & ethical views of environmental losses. Skills to be Learned Listening Note taking Analyzing Title

C 10. Short-term economic gains may

SUGGESTED LEA

Student-Centered in class activity

A. Classroom

 Class could be divided into small groups, eagroup to deal with on basic reading of the mentioned.

a. Group 1 - the biol view. In dramatizat use of collages, paspeakers, this group could base its work Our Plundered Plane

b. Groups 2 & 3 - the two groups could, to dramatization, pane speakers, deal with effects of human groups (short-sightedness) individuals (& groups)

s social & economic problems. Group 2 of The Octopus & Group use The Jungle.

c. Group 4 - probably
if held till last,
ticularly because of
Walden's more optimation
tone (in relation
used by the first
This group could u

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ecor.omic gains	may
erm environment	Discipling Area Language Arts
erm chvilo	Subject English
	Problem Orientation <u>Land Use</u> Grade <u>12</u>
	SUGGESTED LEARNING EXPERIENCES
OBJECTIVES	TT. Outside Resource as
students cols of cening, dents should re of the cod & bad) r environ- ic gain by e part in cussion the biologic, c & ethical	activity A. Classroom 1. Class could be divided into small groups, each group to deal with one basic reading of the 4 mentioned. a. Group 1 - the biologic view. In dramatization use of collages, panels, speakers, this group could base its work on Our Plundered Planet. b. Groups 2 & 3 - these
nmental losses.	two groups could, thru dramatization, panels, speakers, deal with the effects of human greed (short-sightedness) on individuals (& groups) s social & economic problems. Group 2 use The Octopus & Group 3 use The Jungle. c. Group 4 - probably best if held till last, par ticularly because of Walden's more optimistic tone (in relation to texts used by the first 3 groups). This group could use (cont.)
ERIC	370

ERIC Fruit Text Provided by ERIC

Resource and Reference Materials

Publications:

Walden, Thoreau
Our Plundered Planet, F. Osborn
1948, Little, Brown & Co.
The Octopus, F. Norris
The Jungle, U. Sinclair

Audio-Visual:

Students can make collages, slides; films on our meat packing industry (& others) are available

Community:

Speakers DNR

Local conservationist's group Paper mill manufacturer Sociologist Continued and Additiona I. (cont.)

selections f om Wald learns to live within collages, panels and Reference Materials

Continued and Additional Suggested Learning Experiences

Planet, F. Osborn Brown & Co. Norris

Sinclair

I. (cont.)
selections from <u>Walden</u> to show what happens when man learns to live within the structure of nature. Use collages, panels and readings.

make collages, s on our meat stry (& others)

vationist's group

C 11. Individual acts, duplicated
O or compounded, produce significant
C environmental alterations over time.

P T Problem Orientat

BEHAVIORAL OBJECTIVES

Cognitive: Students will work on their reading skills: seeing characterization, recognizing themes, main ideas. Students can work on their writing, specifically, they might try a descriptive passage (or text) in which they try to show their reader a lovely setting in nature, or a desolate industrial area.

Affective: Students should see the strong relationships between individual's actions and our emotional-psychic and physical environment. Specifically, students might write a number of short papers in which they can portray their own attitudes toward both psychic and/or physical environmental change.

Skills to be Learned
Close reading
Writing with careful
structure

SUGGESTED LEARNI I. Student-Centered in class

- activity
 - A. Panels on various books.
 - B. A symposium in which the participants try to establish what (if any) relationships exist between the inner environment (psychic) and the exterior (physical) environment.
 - C. Readings followed by films.

ERIC

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l acts, duplicated

, produce significant

alterations over time.

Discipline Area Language Arts

Subject

English

Problem Orientation Aesthetic Grade 12

SUGGESTED LEARNING EXPERIENCES

OBJECTIVES ents will eading skills: rization, mes, main can work on specifically, a descriptive t) in which w their setting in

ents should relationships ual's actions al-psychic vironment. tudents might of short they can wn attitudes chic and/or nmental

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I. Student-Centered in class activity

- A. Panels on various books.
- B. A symposium in which the participants try to establish what (if any) relationships exist between the inner environment (psychic) and the exterior (physical) environment.
 - C. Readings followed by films.

II. Outside Resource and Community Activities

A. Outside speakers - an artist, a politician could sit on panels with students

Resource and Reference Materials

Continued and Additional Suggested

Publications:

-The Picture of Dorian Gray

Oscar Wilde

Dell, Signet

-All the King's Men

Robert P. Warren

-Population Bomb

Paul Erhlich

-The "Legend Lake" controversy

radio, newspaper editorials

- "Under the Lion's Paw" (and other stories)

Hamlin Garland

-The Greening of America C. Reich

Audio-Visual:

-Film: All the King's Men

-Film: The Picture of Dorian Gray

Community:

-Speakers from D.N.R., political

parties (representatives)

-Demonstration by local artist (commercial) of individuals' reactions to changed psychic or physical environment.



Materials

Continued and Additional Suggested Learning Experiences

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12. Private ownership must be N regarded as a stewardship and should not encroach upon or violate the individual right of others.

Discipline Area

Subject

Problem Orientation

BEHAVIORAL OBJECTIVES Cognitive: The student will voice his own philosophy on the question of man's

relationship to the earth -Is man owner or steward? Students should Affective:

become more aware of others & their own attitudes toward fundamental ecological

issues. These new born attitudes toward stewardship,

should be evaluated by having a group of 3 or 4 students work out a

questionaire with the aim: of measuring the class's

attitudes.

Skills to be Learned Reading difficult material Analysis of parts & whole Verbal &/or written presentation of ones individual "position" on a fundamental issue

SUGGESTED LEARNI I. Student-Centered in class activity

A. Classroom

Read The Bear by Wm.

Faulkner, 5 parts. 2. Analyze parts 1, 2, 3,

& emphasize on themes of "initiation into manhood'

& "stewardship of land".

3. Critical reading of part 4 with emphasis on mixed up value systems, rape of land vs. urge to use land wisely

4. Each student should eit

a. Get on a penel which discuss one of the bas: themes in the book.

b. Present a paper on so issue as McCaslins vie of the land.

c. Give a talk on some issue such as, "The changing view of the 1 from stewardship (Boon 1, 2, 3) to greed (Boo part 5).

5. Work out a questionaire the aim of measuring the class's attitudes and th have a class discussion.



hip must be Language Arts Discipline Area ardship and English Subject h upon or violate Grade 12 Problem Orientation Stewardship ht of others. SUGGESTED LEARNING EXPERIENCES CTIVES II. Outside Resource and I. Student-Centered in class ient will Community Activities activity sophy on A. Classroom 3 1. Read The Bear by Wm. earth -Faulkner, 5 parts. vard? 2. Analyze parts 1, 2, 3, s should & emphasize on themes of cothers "initiation into manhood" es toward & "stewardship of land". cal 3. Critical reading of part orn 4 with emphasis on mixed ewardship, up value systems, rape of bу land vs. urge to use land or 4 wisely 4. Each student should either: he aim.: a. Get on a penel which will ass's discuss one of the basic themes in the book. b. Present a paper on some issue as McCaslins view material of the land. & whole c. Give a talk on some n issue such as, "The nes changing view of the land, ion" on from stewardship (Boon-parts ue 1, 2, 3) to greed (Boon-part 5). 5. Work out a questionaire with the aim of measuring the class's attitudes and then have a class discussion.

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Resource and Reference Materials Publications:

Continued and Additional Suggest

Faulkner edited by Malcolm Cowley, Viking pub., (Fine introduction) Six Great Modern Short Novels, Dell pub.

Audio-Visual:

Students could make slides, collages showing our use or misuse of our land

The Gifts, U.S. Dept. of Interior Federal Water Quality Association Office of Public Instruction

Community:

Speaker from DNR Local farmer Interested citizen Conservationis group (All can give talks on use of land) Malcolm Cowley, introduction) ort Novels,

slides, collages misuse of our

of Interior ty Association astruction

on use of land)

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Continued and Additional Suggested Learning Experiences

PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed

In commenting on each episode used in your class, you may wish format. Please feel free to adapt it and add more pages. Let us a comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences A. In-Class:
 - B. Outside & Community Activities:
- IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

on each episode used in your class, you may wish to duplicate this suggested eel free to adapt it and add more pages. Let us know all your critiques and ive and positive.

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earning Experiences

Community Activities:

source & Reference Materials ggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

each episode used in your class, you may wish to duplicate this suggested free to adapt it and add more pages. Let us know all your critiques and and positive.

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rce & Reference Materials stions & comments)

Project I - C - E INSTRUCTION - CURRICULUM - ENVIRONME

ED05591

A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts Grade 2

Produced under Title III E.S.E.A.
PROJECT I-C-E
Serving Schools in CESA's 3-8-9
1927 Main Street
Green Bay, Wisconsin 54301
(414) 432-4338

Robert War Robert Kel George How

INSTRUCTION - CURRICULUM - ENVIRONMENT

M FCR ENVIRONMENTAL EDUCATION

age Arts Grade 2

I E.S.E.A.

\'s 3-8-9

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Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



If you wish to excite students about their environment, help is of over a hundred teachers, year long meetings, a summer workshop, ecologists, this guide means realistic, developed aid for you. Ple which have directed teachers in writing and editing this guide.

 This guide is supplementary in nature and the episodes are desi
ces-to plug into existing, logical course content.
 Each page or episode offers suggestions. Since you know your st to adapt, adopt, or use. Ry design, the range of suggestions is mentation and usage are even wider. Many episodes are self-cont others can be changed in part or developed more keenly over a f

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning ex plan. The reasons are simple. No guide has all the answers and unless viewed in the context of your classroom situation. Thus, give it a triple reading, check over the resources listed, make prime your students, and seek help. The Project personnel and t nowledgement page stand ready to aid your efforts. Feel free to

4. The Project Resource Materials Center serves all CESA 3, 8, and private. We will send available materials pre-paid. Call for an

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school library Center materials. Please offer suggestions, comments, or advice

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch suggestions on the episode pages or use the attached evaluation lected in late May next year and will be used in our revisions. reactions and suggestions -- negative and positive. Please note t in the episodes may refer to specific, local community resource cases, individual school districts and teachers will have to ad stitutes. A list of terms pertinent to the episodes is below.

7. Ecologists and other experts have simplified the issue--surviva Creation's beauty and complexity -- often noted as the work of a and human energy to save. A year's work by a hundred of your fe gesture. Without you, their work will crumble, and so might we let us live to think, feel, and act in harmony with our world.

Edito

I. Cognitive means a measurable mental skill, ability, or proce

2. Affective refers to student attitudes, values, and feelings.
3. APWI means Acceptable Performance Will Include (labels a cogn

4. EPA - Environmental Problem Area



PREFACE

te students about their environment, help is ready. Thanks to the efforts chers, year long meetings, a summer workshop, university consultants and e means realistic, developed aid for you. Please note the following ideas eachers in writing and editing this guide.

lementary in nature and the episodes are designed -- at appropriate instan-

existing, logical course content.

de offers suggestions. Since you know your students best, you decide what r use. By design, the range of suggestions is wide; your chances for experie are even wider. Many episodes are self-contained, others open-ended, still ged in part or developed more keenly over a few weeks. These built-in w you to explore.

w you to explore.

ou try the episodes and suggested learning experiences but please preare simple. No guide has all the answers and no curriculum will work he context of your classroom situation. Thus, before trying an episode, eading, check over the resources listed, make mental and actual notes, s, and seek help. The Project personnel and teachers listed on the ackstand ready to aid your efforts. Feel free to ask their help in pre-planning. ce Materials Center serves all CESA 3, 8, and 9 area schools--public and end available materials pre-paid. Call for any help, materials, or to 338.

oject ICE Bibliography in your school library for available Resource Please offer suggestions, comments, or advice--at any time--so that this

Let's help each other.

ith the guide by reacting to it with scratch ideas, notes, and extended episode pages or use the attached evaluation format, which will be colnext year and will be used in our revisions. We sincerely want your estions—negative and positive. Please note that some resources listed y refer to specific, local community resources or conditions. In such school districts and teachers will have to adopt local or available subfit terms pertinent to the episodes is below.

er experts have simplified the issue--survival--yours, mine, our students, and complexity--often noted as the work of a genius--will take our genius o save. A year's work by a hundred of your fellow teachers is a saving ou, their work will crumble, and so might we all--literally. Instead,

nk, feel, and act in harmony with our world.

Editorial Board

a measurable mental skill, ability, or process based on factual data.

s to student attitudes, values, and feelings.

ptable Performance Will Include (labels a cognitive or mental performance.)

ntal Problem Area

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Robert Cook, UWGB Dennis Bryan, UWGB

Sister Barbara, St. Bernard

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the sun, the basic source

is converted through Discipline Area Language Arts hesis into a form all Subject Language Arts an use for life pro-Problem Orientation Energy use Grade 2 cesses. BJECTIVES SUGGESTED LEARNING EXPERIENCES lass Student-Centered in class Outside Resource and II. nflower activity Community Activities to roots, 1. Discussion of a sun-& stem. flower using a picture back or the flower. l parts. 2. Construct sunflower tudent (blossom, roots, leaves, ls is stem) e of the 3. How do they think sunflower got its name. energy. 4. Tell what the sun's job ned . was in growing this sections plant. 5. Tell what would have : in happened if it had been without sun. 6. Tell values of sunflower (bird food, aesthetic, snacks)

Continued and Additional Su

Audio-Visual:
Sunflower or a picture of one.

Community:

Continued and Additional Suggested Learning Experiences



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BOAT CAME THE RELEASE

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C. 2. All Jiving organisms interact among ... Discipline Area Language N themselves and their environment, Subject Language E forming an intricate unit called an Problem Orientation Ecos: SUGGESTED LEARNING EX BEHAVIORAL OBJECTIVES I. Student-Centered in class The child will II. Ou activity explain the difference between frogs and toads. A. Read: The child will orally 1. Frog and Toad are describe the place Friends 2. The Letter where we find frog eggs. Affective: The child will 3. Olly's Polliwogs B. Use above to discuss choose which they would "life cycle". rather be-a frog or toad. Ex. - Frog-I like to swim. C. Discuss frog & toad Toad- I like insects. activities: 1. How and what they eat. Skills to be Learned 2. How they swim. Record and sketch D. Discuss how frogs & toads changes in egg appearances change. Make booklets about frogs E. How they fit into balance Writing an informational article about frogs. of nature. 1. Eat bugs, etc. Show & read pictures & 2. Food for humans, and stories to the kinderalso other small

animals.

1. Describe changes &

kindergarten.

have learned to the

relate information they

F. Identify:

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s interact among Discipline Area Language Arts nvironment, Language Arts nit called an Subject Grade Problem Orientation Ecosystem SUGGESTED LEARNING EXPERIENCES -ES I. Student-Centered in class II. Outside Resource and 11 Community Activities activity A. The children will go to a A. Read: nearby pond, bait store, or 1. Frog and Toad are hatchery to obtain frog & Friends toad eggs & observe them 2. The Letter each day for changes using 3. Olly's Polliwogs 11 magnifying glass. B. Use above to discuss "life cycle". i . C. Discuss frog & toad Lm. activities: 1. How and what they eat. 2. How they swim. D. Discuss how frogs & toads ances change. E. How they fit into balance ogs of nature. 1e1. Eat bugs, etc. 2. Food for humans, and also other small animals. F. Identify: 1. Describe changes & relate information they have learned to the

kindergarten.

Resource and Reference Materials

Continued and Additional Suggested

Publications:

Books:

Frog and Toad are Friends
The Letter
Olly's Polliwog
All by Arnold Lobil

Audio-Visual:

Frog eggs in glass jar Magnifying glass Glass jar for polliwogs Folk song, Froggie Went A Courting

Community:

Continued and Additional Suggested Learning Experiences

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C 2. All living organisms interact among themselves and their environment, Discipline Area N C Subject forming an intricate unit called Problem Orientation Ec T an ecosystem. SUGGESTED LEARNING BEHAVIORAL OBJECTIVES Student-Centered in class Cognitive: Children will I. observe actual rabbits & activity 1. Poem "The Rabbit" realize need for being very quiet in observing. Chil-2. Pretend that child is a dren will use library for rabbit: stories both factual and a. Where build his home? b. What are his natural fanciful. Children may pretend to be a rabbit (Where will he look for enemies? 1. Man - hunting food, shelter, protection 2. Dogs - hunting 3. Foxes & hawks from enemies.) Affective: Each child c. How can rabbit protect evaluates for himself himself? the good and bad traits l. Color blends of a rabbit. 2. Natural protection by snow Skills to be Learned 3. Panel discussion: Evaluate ways in which a. Rabbits are nuisance the situation can be and it is all right to controlled set traps & hunt them. a. Traps b. Rabbits enrich our Provide other source of lives & the damage done food to trees and shrubs could Protection of trees & have been eliminated. shrubs 1. Class will decide a. By repellent which presentation is b. Covering trunks & best presented - pro

and con.

La:

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II.

branches

ganisms interact among Discipline Area Language Arts heir environment, Language Arts Subject cate unit called Problem Orientation Ecosystem Grade 2 SUGGESTED LEARNING EXPERIENCES JECTIVES Student-Centered in class Outside Resource and II. en will Community Activities bits & activity 1. Poem "The Rabbit" eing very 2. Pretend that child is a c. Chilary for rabbit: ial and a. Where build his home? b. What are his natural n may bbit enemies? k for 1. Man - hunting tection 2. Dogs - hunting 3. Foxes & hawks c. How can rabbit protect hild self himself? raits 1. Color blends 2. Natural protection by snow ned 3. Panel discussion: which a. Rabbits are nuisance bе and it is all right to set traps & hunt them. b. Rabbits enrich our irce of lives & the damage done to trees and shrubs could es & have been eliminated. 1. Class will decide which presentation is best presented - pro and con.

ERIC

Resource and Reference Materials

Publications:

Time for Poetry - A Teacher's

Anthology by May Hill Arbuthnot.

"The Rabbit" by Elizabeth

Madox Roberts, p. 96.

Audio-Visual:

Community:

Continued and Additional Suggest

The Rabbit

When they said the time to hi I hid back under a thick grap

And while I was still for the A little gray thing came out

He hopped his way through the And sat down close by a cabb

He sat down close where I co And his big still eyes looke

His big eyes bursting out of And I looked back very hard

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The derivative of the life of

From "Under the Tree

Elizabeth Madox

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e Materials

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Continued and Additional Suggested Learning Experiences

acher's Arbuthnot. The Rabbit

When they said the time to hide was mine, I hid back under a thick grapevine.

And while I was still for the time to pass, A little gray thing came out of the grass.

He hopped his way through the melon bed, And sat down close by a cabbage head.

He sat down close where I could see, And his big still eyes looked hard at me.

His big eyes bursting out of the rim, And I looked back very hard at him.

From "Under the Tree" by

Elizabeth Madox Roberts

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21 MOLTESTA BERNO MISSING

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2. All living organisms interact among themselves and their environment, Discipline Area forming an intricate unit called Subject -T an ecosystem. Problem Orientation Ecos BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EX Cognitive: Children will Student-Centered in class listen for ways to identify activity the presence of woodpeckers. 1. Poem: "The Woodpecker" Children will learn to iden-2. Collect pictures - mural tify kinds of woodpeckers with environment added. and observe where they build 3. Draw pictures & write nests. story about woodpecker Affective: Old, rotten observed. trees, posts, etc. provide 4. Discussion: food for woodpeckers and Are woodpeckers necessary? provide places for nests; What happens when all rotwhen we destroy these ten & decayed positions of natural situations, we are trees are removed? destroying their environ-Nesting places gone ment. How would we feel if our home was des-Food supply limited Are artificial methods troyed. possible to attract Skills to be Learned woodpeckers? Listening for tapping Use of field glasses for identification Recognize local - a. Red-headed b. Hairy & downy Compare & contrast other similar habits

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II.

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rganisms interact among Language Arts Discipline Area their environment, Language Arts icate unit called Subject Problem Orientation Ecosystem Grade SUGGESTED LEARNING EXPERIENCES BJECTIVES en will Student-Centered in class II. Outside Resource and o identify Community Activities activity oodpeckers 1. Poem: "The Woodpecker" n to iden-2. Collect pictures - mural ipeckers: with environment added. they build 3. Draw pictures & write story about woodpecker rotten observed. . provide 4. Discussion: ers and Are woodpeckers necessary? nests; What happens when all rotrese ten & decayed positions of s, we are trees are removed? environ-Nesting places gone feel Food supply limited es-Are artificial methods possible to attract woodpeckers? ned ping sses for st other

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ERIC

Resource and Reference Materials

Publications:

Time for Poetry - A Teacher's Anthology, "The Woodpecker," p. 84 by Elizabeth Madox Roberts.

Audio-Visual:

Taped woodpecker sounds Stuffed specimens from local museum, etc.

Community:

Continued and Additional Suggested Le

The Woodpecker

The woodpecker pecked out a little And made him a house in the teleph

One day when I watched he poked ou And he had on a hood and a collar

When the streams of rain pour out And the sparkles of lightning go f

And the big, big wheels of thunder He can snuggle back in the telepho

From "Under the Tre

To and less have one a Elizabeth Made

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or printell retoods , traited to be setting.

Tate Daylor

Continued and Additional Suggested Learning Experiences

The Woodpecker

lals

The woodpecker pecked out a little round hole And made him a house in the telephone pole

One day when I watched he poked out his head, And he had on a hood and a collar of red.

When the streams of rain pour out of the sky, And the sparkles of lightning go flashing by,

And the big, big wheels of thunder roll, He can snuggle back in the telephone pole.

From "Under the Tree" by

Elizabeth Madox Roberts

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TRANSPORT OF A TAIR CAT

CadeMosticus:

3. Environmental factors are limiting N on the numbers of organisms living Discipline Area E within their influence, thus, each Subject T environment has a carrying capacity. Problem Orientation Ca BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Cognitive: Student will, Student-Centered in class II. using 2 cans, compare space activity used by used cans. Observe l. flattened & unflattened cans and give oral report on observation. Affective: Student will observe that folded cans will take up less space; out of clutter, perhaps, cans can be recycled, thus, reusing metals. Skills to be Learned Observation and comparison Chart for comparison Show space used by folded & unfolded cans. Speech skill/reporting

La

La Ca ntal factors are limiting Discipline Area ___ Language Arts rs of organisms living influence, thus, each Subject Language Arts Carrying has a carrying capacity. Problem Orientation Capacity Grade 2 L OBJECTIVES SUGGESTED LEARNING EXPERIENCES udent will, Student-Centered in class Outside Resource and I. II. compare space activity Community Activities ans. Observe 1. 1. Gather opened, used cans. flattened Sort, Remove paper oral report labeling, wash out can, remove remaining end, & udent will flatten can. olded cans 2. Compare amount of space ess space; used by original collec-, perhaps, tion of cans to amount cycled, thus, used by flattened cans. 3. If possible, turn in cans for re-use. earned 4. Chart and compare space nd compaused. parison ed by folded reporting

Resource and Reference Materials
Publications:

Continued and Additional Suggested Learn

Audio-Visual:

Community:

Sanitary Dept. Engineer
Companies - Local & national
using this procedure -their
pamphlets, booklets, may be
available. Contact Public
Relations Dept.

- a. American Can Corp.
- b. National Can
- c. Continental Can

Continued and Additional Suggested Learning Experiences erials

77

4. An adequate supply of pure N water is essential for life. Discipline Area Lan E Subject Lang P Problem Orientation on BEHAVIORAL OBJECTIVES SUGGESTED LEARNING E Cognitive: Children will Student-Centered in class II. describe the things found activity in polluted water using a 1. Teacher & children colword list. lect pictures of fish -Affective: Children feel cut out: flustered due to pollution. a. healthy fish as fish They will help by attempfor dinner ting to corr-ct the situb. dying fish - pleasant ations. Project & unpleasant 2. Put on chart. Skills to be Learned 3. Children give reasons for Making distinctions healthy & unhealthy fish; Writing a word list reasons could be pollution, Chart making debris, soap suds, etc. 4. Write ideas of the feelings of a fish in one of the two groups. Titl. SEA

)I I	pure	and the second s
71	fe. Discipline Area	Language Arts
	Subject	Language Arts
		Effects of pollution
	Problem Orientatio	n on fish Grade .2
ES	SUGGESTED LEAR	NING EXPERIENCES
ES 1	I. Student-Centered in class	II. Outside Resource and
đ	activity	Community Activities
a	1. Teacher & children col-	
٠.	lect pictures of fish -	
1	cut out:	
on.	l ser and a ser of the ser of the ser	
_ 	for dinner	
_	b. dying fish - pleasant	
_	& unpleasant	
	2. Put on chart.	The state of the s
-	3. Children give reasons for	A control of the second of the
	healthy & unhealthy fish;	
	reasons could be pollution	
	debris, soap suds, etc.	
	4. Write ideas of the feeling	nes
	of a fish in one of the tw	wb .
	groups.	
	groups.	
	Fig. 1. The state of the state	 (1) 工場製品が行っている。 選択する。 これがあり、 これにはないにはない。 これが、 これが、 これが、 これが、 これが、 これが、 これが、 これが、
5	The Control of the	
		원명명 (경우건 B명원 기념통기 원명원 경기 경기 문) -
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Resource and Reference Materials | Continued and Additional Suggested Publications:

Audio-Visual:

Community:

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ials	Continued and Additional S	uggested Learning Experiences
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Full Taxt Provided by ERIC

-	C 5. An adequate supply of cl	lean air is	enters.	
	0 N essential because most orga		Discipline Area	Language Aı
	C E depend on oxygen, through r		·	Language Ar
	T to release the energy in the	neir food.	Problem Orientat	ion <u>Clean</u>
	BEHAVIORAL OBJECTIVES		SUGGESTED LE	ARNING EXPER
Project I-C-E	Cognitive: Children will be able to name 3 pleasant & 3 unpleasant odors. Affective: The teacher will put words or phrases in pairs, the child will reject the pairs of words which could be harmful	activity A. Class 1. Dis why hot- 2. Lis like 3. Lis 4. Sme	-Centered in class scuss with childr we can smell the -lunch.	en like.
쁘	Gas, smoke Pumpkin pie, gasoline	etc		- · ·
0-0135+	Skills to be Learned Listing	• ,	harmful to us.	
59-70	Discussing Making judgments			
H		enantier and a graph 174 at 1		d de grand di∮e de propieta di altri della di
le Il				
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through respiration						

Discipline Area Language Arts

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Language Arts

SUGGESTED LEARNING EXPERIENCES

rgy in their food.

Problem Orientation Clean Air

Grade 2

TIVES will easant her

rases will words ul odors.

asoline

I. Student-Centered in class activity

A. Class

- 1. Discuss with children why we can smell the hot-lunch.
- 2. List odors which they like.
- 3. List odors they dislike.
- 4. Smell odors such as, smoke, onions, perfume, etc.
- 5. Discuss how odors can be harmful to us.

II. Outside Resource and Community Activities A. Outside activity

- 1. Children will bring materials from home and community for a smelling party.
- 2. Bring in pictures of polluted air.
- 3. Bring in articles to smell, half of the room can bring in nice odors & the others, the bad odors.

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Continued and Additional Suggested Resource and Reference Materials ten reministration 14.1 Publications: The second secon 数,于图159 · 图56人 经发生的产品的 3 ·新典·新型2016、特殊1960、主要400年10年112年113年 er ja vija. I Leuria andre 1980 in der antel and the filmship A STATE OF THE STA งสูงสงให้ในกระดังใช้งานก่องสำหรับการตุลง ตัวหรือ Cudio-Visual: The state of the s Control of the book of the book

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Continued and Additional Suggested Learning Experiences

6. Natural resources are not equally N distributed over the earth or over

Discipline Area

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E time and greatly affect the geographic

Subject

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II.

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T conditions and quality of life.

Problem Orientation Resour

SUGGESTED LEARNING EXP

BEHAVIORAL OBJECTIVES

Cognitive: To construct a picture story showing at least 3 environmental resources of the far North or that of our region. Affective: The children will respond to the situation: Eskimos have many days of darkness. Wouldn't it be a good idea to take electric light bulbs, hot plates, and electric heaters there & sell them to the Eskimos?

Skills to be Learned To compare difference in: food weather possessions, etc. Show a specific idea on a picture

- Student-Centered in class I. activity
 - 1. Teacher reads a story about Eskimo life.
 - 2. Teacher & children discuss how the life of Eskimos is similar to & different than ours. Include:

food possessions natural resources

- 3. The children will draw conclusions (teacher will write on board) which tell the effects on each groups life because of the quantity of water, snow, trees, growing weather.
- 4. Divide the class into 2 or more groups & have each group draw a picture showing the natural resources of the area.
- 5. The children could make charts comparing clothes, food, animals of the two areas.

are not equally Discipline Area Language Arts earth or over Subject Language Arts ct the geographic Problem Orientation Resource Usage Grade y of life. SUGGESTED LEARNING EXPERIENCES VES Student-Centered in class II. Outside Resource and I. Community Activities ati activity 1. Teacher reads a story rth about Eskimo life. 2. Teacher & children discuss how the life of Es-IJ kimos is similar to & different than ours. Include: lea! food oulbs. possessions natural resources em 3. The children will draw conclusions (teacher will

- write on board) which tell the effects on each groups life because of the quantity of water, snow, trees, growing weather.
- 4.Divide the class into 2 or more groups & have each group draw a picture showing the natural resources of the area.
- 5. The children could make charts comparing clothes, food, animals of the two areas.

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Resource and Reference Materials Publications:

Continued and Additional Suggested L

Audio-Visual:

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Continued and Additional Suggested Learning Experiences

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7. Factors such as facilitating transportation, N economic conditions, population growth, Discipline Area Language E and increased leisure time have a great Subject Langua T influence on changes in land use and Problem Orientation Train centers of population density. SUGGESTED LEARNING BEHAVIORAL OBJECTIVES Cognitive: A movie will be I. Student-Centered in class constructed by the class activity which shows the sequence of A. Classroom land transportation & how 1. The children will form it caused change in land groups & make a movie use. showing the sequence of Affective: The teacher land transportation & will provide a list of modes changes needed for each. of transportation to be rated in groups according to the greatest effects on land use. Example: Wagon 3 Walking 4 Jets 2 Airplanes 3 Railroad 2 Horses 4 Jets l Cars 1 Skills to be Learned Sequential order Listing

s facilitating transportation, ns, population growth, Discipline Area Language Arts sure time have a great Subject Language Arts ges in land use and Problem Orientation Transportation Grade 2 tion density. ECTIVES SUGGESTED LEARNING EXPERIENCES will be I. Student-Centered in class II. Outside Resource and class activity Community Activities uence of A. Classroom A. Projects & how 1. The children will form 1. The children & teacher land groups & make a movie will go for a walk & showing the sequence of note the various ways cher land transportation & of land transportation. of modes 2. When they get back to changes needed for each. o be the classroom, a comording posite list of ways of ects transportation will be made: a. Ways he observed on nes 3 walk b. Other ways 3. Discussion will follow: a. Modes of travel in sequencial order. b. What had to be done to our land when each new way was discovered c. Why were more ways of transportation needed?

Resource and Reference Materials | Continued and Additional Sugges

Audio-Visual:

Community:

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Continued and Additional Suggested Learning Experiences

N political factors determine status Discipline Area E of man's values and attitudes Subject T toward his environment. Problem Orientation Pollut SUGGESTED LEARNING EXPE BEHAVIORAL OBJECTIVES Cognitive: Student will Student-Centered in class observe for one day: activity (taking notes) signs of 1. Make notes to look for pollution in the air and following things: in the environment. Project I-C-E a. Air pollution: Affective: What things 1) chimneys . do I do that cause 2) cars, trucks pollution? b. Scenic pollution garbage
 junking old cars Skills to be Learned Observation of positive c. Noise pollution and negative factors 1) home Taking notes of observation 2) school 59-70-0135-1 Posters 2. Do we need noise? How much can be tolerated? a. small children b. school children c. adults, older brothers and sisters d. parents e. grandparents 3. Discussion - how to cope with each individual's particular problem.

8. Cultural, economic, social, and

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nomic, social, and Discipline Area Language Arts determine status Language Arts and attitudes Subject Problem Orientation Pollution Grade onment. SUGGESTED LEARNING EXPERIENCES **JECTIVES** will Student-Centered in class Outside Resource and I. II. Community Activities activity ns of 1. Make notes to look for ir and following things: a. Air pollution: nings 1) chimneys 2) cars, trucks b. Scenic pollution 1) garbage 2) junking old cara Sitive c. Noise pollution ?S 1) home oservation. 2) school 2. Do we need noise? How much can be tolerated? a. small children b. school children c. adults, older brothers and sisters d. parents e. grandparents 3. Discussion - how to cope with each individual's particular problem.

Resource and Reference Materials Publications:

Continued and Additional Suggested I

Audio-Visual:

newspaper & magazine pictures (for discussion) cameras

Community:

Contact TV & radio stations for coverage of school project Sanitation Dept. Water Dept. City/County officials .

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Continued and Additional Suggested Léarning Experiences

Project I-C-E 59-70-0135-1 Title ESEA

Ç	9. Man has the ability to manage,	
N O	manipulate, and change his	Discipline Area _
C E	environment.	Subject _
P T		Problem Orientati

BEHAVIORAL OBJECTIVES

Children will Cognitive: select some specific area to evaluate over a period of time. Each can decide on area to be observed. Seasons can change aspect of environment. Affective: Given a picture to observe, child

suggests what he would do to improve site.

Skills to be Learned Watching for specific areas to concentrate on Compare area-Earth's scars from road constructions, abandoned cars & machinery covered with snow, spring shows up pollution Note taking Story writing

SUGGESTED LEA I. Student-Centered in class

activity

A. Classroom activity

1. Children will decide what area they plan to observe.

2. Each group reports or area of choice.

3. They will also decide at what intervals they will make observations time of day, morning of night.

4. Aesthetic evaluation

a. What is objectionable? Why?

b. What is good? Why

5. Write stories about observations.

a. Spelling list of words children suggest to enable them to compose ste

b. Compare notes from first observation last observed and compare.

1. Has spelling imp

2. Good sentence st

6. Children may read st to classmates.

88

ity to manage, Discipline Area Language Arts nge his Language Arts Subject Appreciation Problem Orientation & Observation Grade 2 SUGGESTED LEARNING EXPERIENCES TIVES II. Outside Resource and I. Student-Centered in class will Community Activities activity area A. Classroom activity riod 1. Children will decide ide what area they plan to ed. observe. spect 2. Each group reports on area of choice. 3. They will also decide child at what intervals they ld do will make observationstime of day, morning or night. 4. Aesthetic evaluation: LC a. What is objectionce on able? Why? scars b. What is good? Why? tions, 5. Write stories about achinery observations. spring a. Spelling list of words children suggest to enable them to compose story. b. Compare notes from first observation to last observed and compare. 1. Has spelling improved? 2. Good sentence structure? 6. Children may read stories to classmates.

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Resource and Reference Materials Publications:

Continued and Additional Sugg

Audio-Visual:

Photographs - local news

Magazine pictures of areas

similar to those observed

Collage or chart design making

Community:

ce Materials

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ERIC Full Text Provided by ERIC

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Continued and Additional Suggested Learning Experiences

11. Individual acts, duplicated or compounded, produce significant Discipline Area Language Art environmental alterations over Subject ${\bf E}$ Library time. Problem Orientation Abuse . BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPERIE Cognitive: The students will I. Student-Centered in class II. Out answer four out of five activity Comm correct answers to "yes" or A. The teacher will say "no" questions to tell the there is one child in the right ways of "marking-theroom who is a very good place" in a book. reader, but when library Affective: The teacher will reading time is up, he bends watch to see how books are the corner of the page to marked and listen to see if mark his place in the children tell each other library book. what to do. 1. What would happen if all our class members Skills to be Learned did this? Logical thinking 2. If the entire school Proper care of books did this? 3. If everyone who went to the library did this? 4. Is this taking care of our library environment? 5. What other ways could we keep our place in a book? 6. Bookmarks will be made.

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luplicated duce significant Discipline Area Language Arts rations over Subject Library Problem Orientation Abuse ... Grade 2 ES SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class will II. Outside kesource and activity Community Activities orA. The teacher will say he there is one child in the heroom who is a very good reader, but when library 111 re

- reading time is up, he bends the corner of the page to mark his place in the library book.
- 1. What would happen if all our class members did this?
- 2. If the entire school did this?
- 3. If everyone who went to the library did this?
- 4. Is this taking care of our library environment?
- 5. What other ways could we keep our place in a book?
- 6. Bookmarks will be made.

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Resource and Reference Materials Publications:

Continued and Additional Suggest

Audio-Visual:

Community:

Continued and Additional Suggested Learning Experiences



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0 garded as a stewardship and should Discipline Area Language A not encrouch upon or violate the Subject Language A T individual right of others. Problem Orientation BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPE Cognitive: After taking . Student-Centered in class II. Out a field trip the child activity will identify three wild flowers. Affective: The students will try to preserve wild flowers for other to enjoy. Skills to be Learned Planning field trip -Transportation-bus cr walk Observe flowers-natural setting Take notes Make sketches On return: Find illustrations and note pages.

12. Private ownership must be re-

Project -59-70-0135-1 III ESEA

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rship must be re-Discipline Area Language Arts ardship and should n or violate the Subject Language Arts Problem Orientation _______ Use of others. Grade ECTIVES SUGGESTED LEARNING EXPERIENCES aking . Student-Centered in class II. Outside Resource and ild activity Community Activities Field trip: Children will look for dents place where wild flowers e wild grow. 2. Children will observe area carefully and look specifically for certain flowers. May sketch hastily: leaves, indicate colors, flowers, shade of greeen, bud, seed. 4. If wild flower is an annual or and not protected by law. tural Flowers may be taken to: a. Sketch b. Press and preserve 5. If biennial a. Recognize leaves and s and plants b. Learn that it takes two years to produce seeds. 6. If bulbs - may grow from seeds - produce bulb and reproduce in two ways. For discussion:

Ownership responsibility

ERIC

Resource and Reference Materials Publications:

Continued and Additional Suggested I

Audio-Visual:

Community:



Continued and Additional Suggested Learning Experiences



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as need

In commenting on each episode used in your class, you may we format. Please feel free to adapt it and add more pages. Leand comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences
 A. In Class:
 - B. Outside & Community Activities:
 - IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

ng on each episode used in your class, you may wish to duplicate this suggested see feel free to adapt it and add more pages. Let us know all your critiques negative and positive.

d Objectives

ive:

veloped

Learning Experiences

e & Community Activities:

Resource & Reference Materials suggestions & comments)



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Project I - C - E

INSTRUCTION - CURRICULUM - ENVIRON

A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts GRADE 3

Produced under Title III E.S.E.A. PROJECT I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Robert Robert George



I - C - E

INSTRUCTION - CURRICULUM - ENVIRONMENT

MENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

NE AREA Language Arts GRADE 3

under Title III E.S.E.A. I-C-E Schools in CESA's 3-8-9 I Street 7, Wisconsin 54301 2-4338

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist

PREFACE

If you wish to excite students about their environment, help is re of over a hundred teachers, year long meetings, a summer workshop, un ecologists, this guide means realistic, developed aid for you. Pleas which have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are designed ces--to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know your stuto adapt, adopt, or use. By design, the range of suggestions is we mentation and usage are even wider. Many episodes are self-contain others can be changed in part or developed more keenly over a few

possibilities allow you to explore.

3 Now we urge that you try the episodes and suggested learning exper The reasons are simple. No guide has 11 the answers and a unless viewed in the context of your classroom situation. Thus, I give it a triple reading, check over the resources listed, make me prime your students, and seek help. The Project personnel and tead knowledgement page stand ready to aid your efforts. Feel free to a

4. The Project Resource Materials Center serves all CESA 3, 2, and 9 We will send available materials pre-paid. Call for any

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school library fo Center materials. Please offer suggestions, comments, or advice--

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch ide suggestions on the episode pages or use the attached evaluation for lected in late May next year and will be used in our revisions. We reactions and suggestions -- negative and positive. Please note that in the episodes may refer to specific, local community resources of cases, individual school districts and teachers will have to adopt A list of terms pertinent to the episodes is below.

7. Ecologists and other experts have simplified the issue--survival--Creation's beauty and complexity -- often noted as the work of a gen and human energy to save. A year's work by a hundred of your fell gesture. Without you, their work will crumble, and so might we all let us live to think, feel, and act in harmony with our world.

I. Cognitive means a measurable mental skill, ability, or process

2. Affective refers to student attitudes, values, and feelings. 3. APWI means Acceptable Performance Will Include (labels a cognit

4. EPA - Environmental Problem Area.



PREFACE

students about their environment, help is ready. Thanks to the efforts ers, year long meetings, a summer workshop, university consultants and means realistic, developed aid for you. Please note the following ideas chers in writing and editing this guide.

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isting, logical course content.

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try the episodes and suggested learning experiences but please prere simple. No guide has all the answers and no curriculum will work context of your classroom situation. Thus, before trying an episode, ding, check over the resources listed, make mental and actual notes, and seek help. The Project personnel and teachers listed on the acktand ready to aid your efforts. Feel free to ask their help in pre-planning. Materials Center serves all CESA 3, 8, and 9 area schools -- public and nd available materials pre-paid. Call for any help, materials, or to 38.

ect ICE Bibliography in your school library for available Resource ease offer suggestions, comments, or advice -- at any time -- so that this

et's help each other.

the guide by reacting to it with scratch ideas, notes, and extended isode pages or use the attached evaluation format, which will be colxt year and will be used in our revisions. We sincerely want your ions--negative and positive. Please note that some resources listed efer to specific, local community resources or conditions. In such col districts and teachers will have to adopt local or available subterms pertinent to the episodes is below.

experts have simplified the issue--survival--yours, mine, our students, complexity -- often noted as the work of a genius -- will take our genius ave. A year's work by a hundred of your fellow teachers is a saving , their work will crumble, and so might we all--literally.

feel, and act in harmony with our world.

Editorial Board measurable mental skill, ability, or process based on factual data. student attitudes, values, and feelings. ole Performance Will Includé (labels a cognitive or mental performance.)

Problem Area.



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CESA #3 Eugene Anderson, Peshtigo Laura Berken, Cconto Falls Willard Collins, Crivitz John Cowling, Niegara Nicholas Dal Santo, Pembine Robert Dickinson, Oconto Ann Fuhrmann, Marinette Lillian Goddard, Coleman William Harper, Lena Robert Herz, St. James (L) Ester Kaatz, Wausaukee Michael Kersten, Suring Douglas Koch, Cath. Central Donald Marsh, Bonduel David Miskulin, Goodman Don Olsen, Shawano Elmer Schabo, Niagara Marion Wagner, Gillett Ruth Ward, Crivitz George Kreiling, Marinette Marg. McCambridge, White Lake Virginia Pomusl, White Lake Gailen Braun, Lena Kay DePuydt, Gillett Lousene Benter, Gillett

CESA #8 Lowell Baltz, Weyauwega William Behring, Lourdes David Bell, Neenah Marie Below, Clintonville William Bohne, Kimberly Bob Church, Little Chute Ronald Conradt, Shiocton Lee Halberg, Appleton Ronald Hammond, Hortonville Jerome Hennes, Little Chute Barbara Huth, Menasha Darrell Johnson, Hortonville Bernadyne King, Neenah Harold Lindhorst, St.Martin (L) John Little, Winneconne Gordon Rohloff, Oshkosh William Schaff, St. Joseph Doris Stehr, Mt. Calvary (L) Carolyn Shills, New London Sister Dorothy, Xavier Clarence Trentlage, Freedom Mike Hawkins, Xavier Beth Hawkins, Xavier Ed Patschke, Menasha Connie Peterson, St.Martin (L) Dallas Werner, Kaukauna Ron Schreier, Omro

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Rob

Den

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Charles Richards, UW-Marinette David West, Lawrence U.

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Joan Alioto, Denmark Angela Anthony, Gibralter Harold Baeten, St. Norbert Anthony Balistreri, Howard-Suamico Lillian Berges, Seymour Carmella Blecha, Green Bay Joan Charnetski, Sevastopol Billie Feichtinger, Green Bay Rev. B. Frigo, Abbot Pennings Robert Haen, Luxemburg-Casco Russ Hanseter, Seymour Paul Kane, Ashwaubenon Roy Lukes, Gibralter Jim Maki, Sturgeon Bay Joyce Mateju, Algoma Richard Minten, W. DePere Gloria Morgan, Linsmeier Private George Pederson, Southern Door Alan Sch**u**h, Pulaski Thomas Weyers, Cathedral Ruth Windmuller, Green Bay James Wiza, DePere John Torgerson, Kewaunee Benjamin Roloff, Howard-Suamico Greg Schmitt, Cathedral John DeWan, Green Bay Emmajean Harmann, Sevastopol Ray Gantenbein, Green Bay David Bartz, Sturgeon Bay John Hussey, Green Bay

Ednajean Purcell, OSU inette David West, Lawrence U.

Robert Cook, UWGB Dennis Bryan, UWGB

Sister Barbara, St. Bernard

CESA #9

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C 1. Energy from the sun, the basic source N of all energy, is converted through Lan Discipline Area Subject Area Lan plant protosynthesis into a form all Problem Orientation Ener living things can use for life processes. SUGGESTED LEARNING E BEHAVIORAL OBJECTIVES Cognitive: The student I. Student-Centered in class II. will relate, by means of activity writing a creative story 1. The teacher could throw on what a world would be out the question - "What without a sun. would happen if the sun Affective: Students suddenly disappeared?" will realize that with-Have the children give out the benefits of the ideas. (Ex. - How might sun's rays, there could the earth be different if be no life on earth. there were no sun? Would The children will defend it be dark and lifeless? the need of the sun in our Would it be cold? Why or lives. why not? 2. Following the above dis-Skills to be Learned cussion, write a creative story, "I am living in a Discussing Writing world without a sun."

ERIC Full Book Provided by ERIG

sun, the basic source

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converted through	Discipline Area	Language Arts	
sis into a form all	Subject Area	Language	a tha bhannan a sa an physician an a
use for life pro- cesses.	Problem Orientatio		Grade 3
CTIVES	SUGGESTED LEAR	NING EXPERIENCES	
activity	-Centered in class eacher could throw		esource and Activities

- 1. The teacher could throw out the question "What would happen if the sun suddenly disappeared?" Have the children give ideas. . Ex. How might the earth be different if there were no sun? Would it be dark and lifeless? Would it be cold? Why or why not?
- 2. Following the above discussion, write a creative story, "I am living ir a world without a sun."

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Publications: Books: World Book Encyclopedia, Volume S. Modern Science, Book 3, Smith, Belcha, Press. Laidlow, 1970. pp. 101-111; Bk. 4 - p. 156-57. Science: Comparing Things, Bk. McMillan Co. by Bernard and Lavatelli. pp. 23-26; 63, 68. 136-37 (1970) Science in Your Life, Bk. 4. by Schneider. pp. 428, 443, 447. D.C. Heath Co. 1968 Audio-Visual: Filmstrips: Source: D.C. Heath & Co., 45 S. Dean St., Englewood, N.J. 07631. (May be rented or purchased.) The Seasons of the Year -Sunlight & the Earth's Temperature - Set 4A The World of Living Things

Resource and Reference Materials

Community:

Set 5A

Continued and Additional Suggeste

Continued and Additional Suggested Learning Experiences

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	C 2. All living organisms interact among					
	N themselves and their enviro	nment, Discipline Area <u>La</u>				
	C E forming an intricate unit c	alled an Subject <u>La</u>				
	P T ecosystem.	Problem Orientation				
	BEHAVIORAL OBJECTIVES Cognitive: A demonstration	SUGGESTED LEARS T. Student-Centered in class				
ESEA Title III - 59-70-0135-1 Project I-C-E	Cognitive: A demonstration by the children, depicting family living in harmony and out of harmony. They will infer harmony is best. Affective: Children will promote happy family relationships in their lives. Skills to be Learned Create an idea Work in a group Participate in the playlet	T. Student-Centered in class activity A. Play SRA record or family story. B. List members of the famil living together-mother, father, brother, sister, grandmother, etc. C. Divide class into groups. Each group write a playlet showing: 1. How the family members work together happily. 2. What happens when disagreements arise. D. Put on playlets.				

organisms interact among Discipline Area Language Arts their environment, Language Arts Subject ricate unit called an Grade 3 Problem Orientation Ecosystem SUGGESTED LEARNING EXPERIENCES OBJECTIVES I. Student-Centered in class II. Outside Resource and emonstration , depicting Community Activities activity A. Play SRA record or family n harmony ony. They story. B. List members of the family mony is best. living together-mother, ldren will father, brother, sister, amily grandmother, etc. n their C. Divide class into groups. Each group write a playlet showing: arned 1. How the family members work together happily. the playlet 2. What happens when disagreements arise. D. Put on playlets.

Continued and Additional Su

Audio-Visual: SRA

Social Studies

Record I

Side I

Filmstrip pertaining to Family Sharing & Living

Community:

ls

3. Environmental factors are limiting N on the numbers of organisms living Discipline Area E within their incluence thus, each Subject T environment has a carrying capacity Problem Orientati SUGGESTED LEA BEHAVIORAL OBJECTIVES I. Student-Centered in class Cognitive: Children will activity differentiate between a party of a limited num-1. Teacher creates an imagi ber and one where the party native situation: became overcrowded through a. All are invited to a question & answer. birthday party-unknown Affective: The children to nostess children will feel the impact of brought their brothers crowded condition vs. and sisters. 2. Questions: Will there be uncrowded conditions. enough room for games, food, prizes, and fun? Skills to be Learned 3. Will our chance for a Critical thinking Mental creative exercise prize be more or less? 59-70-0135-1 4. What will too many at Drawing conclusions the party do to our good time.

factors are limiting

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organism	s living	Discipline	Area	Language	Arts	·
ence, th	nus, each	Subject		Language		
carrying	capacity	Problem Ori	.entation	Populatio Density		3
ECTIVES		SUGGEST	ED LEARNI	NG EXPERIE	NCES	
n will en a num- ne party through ldren t of	activit 1. Tead nativ a. Al birt to b	t-Centered in y her creates are situation: l are invited hday party-undestess childresht their brot	class imagi- to a known	II. Outsi	de Resource an ity Activities	
d ercise	2. Ques enoug food 3. Will prize 4. What	sisters. stions: Will the charge for game prizes, and for chance for the charge or less will too many party do to our	nes, fun? or a ess?			
					and the second s	

102

Resource and Reference Materials Publications:

Continued and Additional Sug

Audio-Visual:

mmunity:

Materials Continued and Additional Suggested Learning Experiences



	C 4. An adequate supply of p O N water is essential for lif C E P T	· · · · · · · · · · · · · · · · · · ·
ESEA Title III - 59-70-0135-1 Project I-C-E	BEHAVIORAL OBJECTIVES Cognitive: Five words which describe pure or impure water will be learned for spelling. Sentences will be written describing pure or impure water.* Affective: By knowing these descriptive words about water, he will be able to tell w y he needs pure water. Skills to be Learned Sentence writing Spelling Choosing descriptive word * The children will be given word cards des- cribing conditions of water. Each child will classify his words under the heading of pure & impure water.	SUGGESTED LEARN I. Student-Centered in class activity 1. The teacher will put the word "water" on the board. 2. The students will list any words which describe water. 3. These words will then be divided into two groups. a. Words which describe water which could be pure. b. Words which could describe impure water. 4. Sentences can be written using any of the words from above list. 5. Children will choose 5 or more words to learn to spell. 6. Thinking of these words children will discuss the need for all of us to have good, pure water.



e supply of pure ential for life. Discipline Are. Language Arts Language Arts Subject Adequate Problem Orientation Water Supply Grade 3 CBJECTIVES SUGGESTED LEARNING EXPERIENCES Student-Centered in class II. Outside Resource and re words Community Activities pure or activity ill be 1. The teacher will put the elling. word "water" on the board. be written 2. The students will list or impure any words which describe water. knowing 3. These words will then ive words be divided into two e will be groups. ny he needs a. Words which describe water which could be pure. earned b. Words which could ing describe impure water. 4. Sentences can be riptive written using any of the words from above list. will be Children will choose 5 or more words to ds des≖ ions of learn to spell. ild will 6. Thinking of these words ords children will discuss the need for all of us ing of water. to have good, pure water.

<u> 'isual:</u>

Community:



rials | Continued and Additional Suggested Learning Experiences



students may want to create their own. Affective: A list of words describing pure and impure air will be given to the child. He will put a P by the words that represent pure and an I by impure. (As smoke, supper cooking)

Skills to be Learned Vocabulary development Poem or prose writing

- lists them on board. (Muggy, clean, foggy, smelly, polluted)
 - 2. Discuss meaning of words bringing in the fact that living organisms need air.
 - 3. Class write a composite poem or prose about air.
 - 4. Advanced students may wish to compose their own.

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upply of clean air is e most organisms

Discipline Area Language Arts

, through respiration,

Language Arts

SUGGESTED LEARNING EXPERIENCES

nergy in their food.

Problem Orientation Clean Air

Grade 3

JECTIVES 111 11 ns or dv. to

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ed pment ting

I. Student-Centered in class activity

Subject

- A. Class activity
 - 1. Have children give words which describe air as the teacher lists them coboard. (Muggy, cleat, foggy, smelly, poll ed)
 - 2. Discuss meaning of words bringing in the fact that living organisms need air.
 - 3. Class write a composite poem or prose about air.
 - 4. Advanced students may wish to compose their own.

II. Outside Resource and Community Activities

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Resource and Reference Materials Publications:

Continued and Additional Suggested Learn

Audio-Visual:

Community:



Materials | Continued and Additional Suggested Learning Experiences



6. Natural resources are not equally N distributed over the earth or over Discipline Area E time and greatly affect the geographic Subject T conditions and quality of life. Problem Orientation Res-SUGGESTED LEARNING BEHAVIORAL OBJECTIVES I. Student-Centered in class Cognitive: Students will demonstrate by means of activity oral or written reports. 1. Children can make verbal some of the ways in which reports of their findings in minerals can be recycled, the survey. in order to insure an ade-2. Short original poems about quate supply for future use. pollution of streams, and Affective: How did you littering of highways. This feel about the responses could include the Haiku Torm of the people in our comof unrhymed verse. munity when ou asked were willing to turn in bottles and cans? The responses could be very willing, rather willing, or unwilling. Skills to be Le rned Reporting Writing poems Writing stories Discussion

La

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resources are not equally

1	over	earth	

Discipline Area

Language Arts

reatly affect the geographic

Subject

Language

and quality of life.

Problem Orientation Resource Usage Grade 3

RAL OBJECTIVES Students will by means of ten reports, ways in which be recycled, insure an adefor future use. How did you ne responses e in our comyou asked if lling to turn

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

- 1. Children can make verbal reports of their findings in the survey.
- 2. Short original poems about pollution of streams, and littering of highways. This could include the Haiku form of unrhymed verse.

Outside Resource and II. Community Activities

- 1. Collect empty soda and re-111 heer bottles return of m to the stores for refunds and reuse.
- 2. Collect used cans of both aluminum and tin for recycling purposes.
- 3. Children may survey their neighborhoods, to find if people are willing to turn in bottles and cans.

led product of profession

Learned

id cans? The

ald be very

ner willing,

ns ries

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

Grade Teacher, Dec., '70, p. 4

"About Pollution"

The Elks Magazine Feb., '71.

"Ten Things to Tell Your Wife
About Pollution." pp. 8-10, 29.

Pamphlet - "Conserving Our Waters
and Cleaning the Air." American
Petroleum Institute. 1271 Avenue
of the Americas. New York City,
New York 10010

Audio-Visual:

Filmstrip - Water for Tomorrow. Two color filmstrips and record. Teacher's Guide. 1810 Mackenzie Drive, Columbus, Ohio.

Community:

Local company (interview, brochures, and information)

Continued and Additional Suggested Learning Experiences erials . 4 fе , 29. Waters rican Avenue City, row. ecord. enzie

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C 7. Factors such as facilitating transportation,

N economic conditions, population growth, Discipline Area Language

E and increased leisure time have a great Su

Subject <u>Language</u>

T influence on changes in land use and centers of population density.

Problem Orientation Trans

BEHAVIORAL OBJECTIVES

SUGGESTED LEARNING EX

Cognitive: Compare the roads of long ago with the modern day roads showing a change in uses due to population growth.

Affective: The teacher will give a hypothetical situation such as, a man with a small farm on the edge of town cannot raise enough food to feed his cows and he cannot buy more land. What should he do and why?

Skills to be Learned
Interpreting
Illustrating
Comparisons

SEA

I. Student-Centered in class activity

A. Classroom

- 1. The teacher will use pictures of different types of roads for comparison.
- 2. The students will compare farms, towns, cities of today to the farms, towns & cities of long ago.
 e.g. Cobblestone streets vs cement streets, dirt roads vs asphalt roads
- 3. Discussion will follow telling why people move about now & how they moved about years ago.
- 4. The students will pick out an area & make a picture, showing what it looked like years ago & how it has been changed to help us move from place to place.
 e.g. Dirt roads vs freeways.



uch as facilitating transportation,

Discipline Area Language Arts ditions, population growth,

Subject d leisure time have a great

Language Arts

changes in land use and

Problem Orientation TransportationGrade 3

opulation density.

SUGGESTED LEARNING EXPERIENCES

AL OBJECTIVES

ompare the ago with the ads showing ses due to owth. ne teacher will

etical situation n with a small dge of town enough food to and he cannot . What should

Learned

- I. Student-Centered in class activity
 - A. Classroom
 - 1. The teacher will use pictures of different types of roads for comparison.
 - 2. The students will compare farms, towns, cities of today to the farms, towns & cities of long ago. e.g. Cobblestone streets vs cement streets, dirt roads vs asphalt roads
 - 3. Discussion will follow telling why people move about now & how they moved about years ago.
 - 4. The students will pick out an area & make a picture, showing what it looked like years ago & how it has been changed to help us move from place to place. e.g. Dirt roads vs freeways.

II. Outside Resource and Community Activities

Resource and Reference Materials | Continued and Additional Suggester Publications:

Audio-Visual:

mmunity:

ence Materials Continued and Additional Suggested Learning Experiences

c 8. Cultural, economic, social, and Discipline Area N political factors determine status Subject E of man s values and attitudes T tower his environment. Problem Orientation Attitue SUGGESTED LEARNING EXPE BEHAVIORAL OBJECTIVES Cognitive: The children Student-Centered in class I. will distinguish between activity the needs of a family and 1. Children bring to class the luxuries by classifying a picture of their family pictures into the above 2 & catalogs & magazines. groups and will tell the 2. The children will cut out resources of our environpictures showing what the ment needed and those which family needs & what the are luxuries. family wants. Affective: Is it true that 3. A discussion will follow our needs and luxuries use on what happens to our up our natural resources natural resources & pollution and at the same time cause of our country when everyone a pollution problem. 59-70-0135-1 has what he wants & what he needs. Skills to be Learned 4. Have a list of resources Classifying & tell children what resource Critical thinking was used for articles from Using litrary references No. 2. Library references may have to be used.

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Langua, Econom:

Ou:

Com

II.

nomic, social, and determine status Discipline Language Arts and attitudes Subject Language Arts Economic Problem Orient ion Attitudes Grade onment. JECTIVES SUGGESTED BARNING EXPERIENCES ildren Student-Centered in class I. Outside Resource and II. etween activity Community Activities ily and 1. Children bring to class assifying a picture of their family above 2 & catalogs & magazines. ll the 2. The children will cut out avironpictures showing what the ose which family needs & what the family wants. crue that 3. A discussion will follow ries use on what happens to our urces natural resources & pollution ne cause of our country when everyone has what he wants & what he needs. ed. 4. Have a list of resources & tell children what resource was used for articles from erences No. 2. Library references may have to be used.

Resource and Reference Materials Publications:

Continued and Additional Suggested Learn

Audio-Visual:

Community:

aterials | Continued and Additional Suggested Learning Experiences

	C 10. Short-term economic gai O N produce long-term environme C E losses. P T	Discipline Area Subject Problem Orient	Dramati Conse ation of R
ESEA Title III - 59-70-0135-1 Project I-C-E	of view in the killing for sport situation and will realize that short-term gains may mean long-term loss. Affective: By volunteering observations in a class discussion, the student accepts the fact that short-term environmental gains may produce long-term environmental loss. Skills to be Learned Dramatizing Critical judgement Verbal empathy	I. Student-Centered in cla activity A. Classroom 1. Read poem, Hunting by Donald Finkel to 2. Students decide wh meant in each stanz how the character of stanza feels. 3. Discussion of why hunter wanted to kit fox. 4. Discuss whether the good or poor idea, what could happen it many fox are killed 5. The children will small groups & give extemporaneous dram in which the character animals & hunters. 6. Children will give viewpoints of kit fox.	Song class. at is a & f each the ll the is is a including f too form into an atization ters are their r's

n economic gains may term environmental Discipline Area Language Arts Subject Dramatization & Discussion Conservation Problem Orientation of Resources Grade 3 SUGGESTED LEARNING EXPERIENCES OBJECTIVES I. Student-Centered in class dramatizing activity he students ty to A. Classroom 1. Read poem, Hunting Song each point by Donald Finkel to class. killing tion and 2. Students decide what is meant in each stanza & at shorthow the character of each mean longstanza feels. volunteering 3. Discussion of why the a class hunter wanted to kill the student fox. t that short-4. Discuss whether this is a

> good or poor idea, including what could happen if too many fox are killed. 5. The children will form into small groups & give an

extemporaneous dramatization

in which the characters are animals & hunters.

6. Children will give their viewpoints on hunter's justification of killing fox.

II. Outside Resource and Community Activities

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Resource and Reference Materials

Publications:
Poem, Hunting Song, Donald Finkel

Continued and Additional Suggest

Audio-Visual:

Community:

Continued and Additional Suggested Learning Experiences ence Materials Donald Finkel

	C 11. Individual acts, duplica	ated,		
	0 N or compounded, produce signi:	Discipline Are	a Languag	
	C E environmental alterations over time.		Subject	Languag•
	P T		Problem Orient	ation <u>Land</u>
+	BEHAVIORAL OBJECTIVES		SUGGESTED	LEARNING E
+	Cognitive: The students will	. Student-C		
1	examine a cubic foot of	activity		C.
ь	earth, listing their			1
히	findings. When changes		•	_
밁	are made, students will		:	
- 4	record these changes, and			2
ct	will report the results of	•		:.
Proje	these changes.			
10	Affective: The children			
A.	will respond to the		:	
	question ofWhat could		•	4
	we do to improve our	•	•	
5	school to make it a more		į	
135	enjoyable place?	•	1	
-01	Skills to be Learned			
0	Making comparisons].
-7	Keener awareness and use			
59	of the senses		•	
	01 0110 2011000			
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Discipline Area Language Arts

l alterations over time.

Subject

Language

Grade 3

	Problem Orientation) Land Hae
		Little Obc
OBJECTIVES	SUGGESTED LEARN	ING EXPERIENCES
foot of	. Student-Centered in class activity	II. Outside Res Community Ac
their changes nts will		1. Examine the earth:
anges, and results of		density, s 2. Using sen a. Descri
children the at could		b. What we use to
e our it a more ?		feels? c. Do som differe
arned sons ss and use		d. How ma see? e. Look f f. Listen earth b
		Can you sound? 3. In what we the earth?

II. Outside Resource and Community Activities

- 1. Examine the various levels the earth: color, texture, density, smell.
 - 2. Using senses
 - a. Describe the smell of the earth
 - b. What words would you use to tell how the earth feels?
 - c. Do some parts feel differently?
 - d. How many colors do you see?
 - e. Look for signs of life.
 - f. Listen as you rub the earth between your hands. Can you describe the sound?
 - 3. In what ways can we change the earth?
 - a. Add water to it
 - b. Add fertilizer
 - c. Plant something in it
 - d. Let it dry out in the sun
 - e. Heat it in an oven
 - 4. Try some of the above ideas with the earth. Plant the same kind of seed (corn) (cont.)



Resource and Reference Materials

Continued and Aditional Suggested Le

Publications:

Science in Your Own Back Yard,
Cooper, E. K., New York City,
New York. Harcourt, Brace, and
Company., 1958
Classroom Out-of-Doors, Schramm,
Wilbur, Sequoia Press, 1969.
A Handful of Soil, Simon, Seymour,
Hawthorne Books. 70 Fith Avenue,
New York, New York 10011.
\$3.95

Audio-Visual:

Community:

II. cont.

in foam cups and give each the sar Keep some of the plants away from some in the window.

5. Report findings and draw conclusion

Materials

Continued and Adlitional Suggested Learning Experiences

Yard,
City,
ace, and

Schramm, 1969. n, Seymour, th Avenue, II. cont.

in foam cups and give each the same amount of water. Keep some of the plants away from direct light, and some in the window.

5. Report findings and draw conclusions.

C 12. Private ownership must be 0 N regarded as a stewardship and C E should not encrouch upon or violate P T the individual right of others. BEHAVIORAL OBJECTIVES Cognitive: Children will list 5 measures & situations where private ownership rust involve private stewardship. Affective: A child shows by his behavior that he regards private ownership as a stewardship & should not encroach upon or violate the individual rights of others. Skills to be Learned Listening Reasoning Discussion Critical thinking

Discipline Area Langu

Subject

Oral Co

Problem Orientation of

SUGGESTED LEARNING
I. Student-Centered in class
activity

A. Classroom

- 1. Before class begins, the teacher will distribute her possessions around the room on desks, under & near desks. She hopes the children will return them.
- 2. Discussion of what has just happened. Ask if it was right for me as a teacher to leave my things about. Why? (Someone else had to pick them up, they were in people's way. She was just causing other people to do unneces work.
- 3. Have students list things which they should do to sh they take care of their possessions & do not cause other people to suffer.
- 4. Do you like to have your area & freedom to work cluttered up with others possessions? or your space used by someone else's belongings?

ERIC Foulded by ERIC

wnership must be Discipline Area Language Arts stewardship and Subject Oral Expression crouch upon or violate Conservation Problem Crientation of Resources l right of others. Grade 3 SUGGESTED LEARNING EXPERIENCES OBJECTIVES I. Student-Centered class II. Outside Resource and ldren will & situations activity Community Activities A. Classroom wnership 1. Before class begins, the ivate stewardteacher will _stribute her possessions around child shows by the room - on desks, under nat he regards & near desks. She hopes nip as a should not the children will return or violate the them. nts of others. 2. Discussion of what has just happened. Ask if it earned was right for me as a teacher to leave my things about. Why? (Someone else had to pick them king up, they were in people's way. She was just causing other people to do unnecessary work. 3. Have students list things which they should do to show they take care of their possessions & do not cause

other people to suffer.

4. Do you like to have your area & freedom to work cluttered up with others possessions? or your space

used by someone else's

ERIC PRUIT TENT OF THE PROPERTY OF THE PROPERT

belongings?

Resource and Reference Materials
Publications:

Continued and Additional Sug

Audio-Visual:

Community:

Materials

Continued and Additional Suggested Learning Experiences

PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

In commenting on each episode used in your class, you may wish to format. Please feel free to adapt it and add more pages. Let us known comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences A. In Class:
 - B. Cutside & Community Activities:
 - IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce of duplicate as needed)

nting on each episode used in your class, you may wish to duplicate this suggested ease feel free to adapt it and add more pages. Let us know all your critiques and negative and positive.

oral Objecti es nitive:

ective:

Developed

ted Learning Experiences Class:

side & Community Activities:

ted Resource & Reference Materials fic suggestions & comments)



Project I - C - E

INSTRUCTION - CURRICULUM - ENVIRONMENT

E005591

A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts

GRADE 4

Produced under Title III E.S.E.A. PROJECT I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Robert Warpinski Robert Kellner, George Howlett,

INSTRUCTION - CURRICULUM - ENVIRONMENT

GRAM FOR ENVIRONMENTAL EDUCATION

nguage Arts GRADE 4

III E.S.E.A.

ESA's 3-8-9

54301

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist

PREFACE

If you wish to excite students about their environment, help is read of over a hundred teachers, year long meetings, a summer workshop, uni ecologists, this guide means realistic, developed aid for you. Please which have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are designed

ces-to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know your stude to adapt, adopt, or use. By design, the range of suggestions is wid mentation and usage are even wider. Many episodes are self-containe others can be changed in part or developed more keenly over a few w

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning experi plan. The reasons are simple. No guide has all the answers and no unless viewed in the context of your classroom situation. give it a triple reading, check over the resources listed, make men prime your students, and seek help. The Project personnel and teach knowledgement page stand ready to aid your efforts. Feel free to as

4. The Project Resource Materials Center serves all CESA 3, 8, and 9 as private. We will send available materials pre-paid. Call for any

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school library for Center materials. Please offer suggestions, comments, or advice--ar service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch ideas suggestions on the episode pages or use the attached evaluation form lected in late May next year and will be used in our revisions. We s reactions and suggestions -- negative and positive. Please note that s in the episodes may refer to specific, local community resources or cases, individual school districts and teachers will have to adopt 1 stitutes. A list of terms pertinent to the episodes is below.

7. Ecclogists and other experts have simplified the issue--survival--yo Creation's beauty and complexity -- often noted as the work of a geniu and human energy to save. A year's work by a hundred of your fellow gesture. Without you, their work will crumble, and so might we all-

let us live to think, feel, and act in harmony with our world.

Edi I. Cognitive means a measurable mental skill, ability, or process ba

2. Affective refers to student attitudes, values, and feelings.

3. APWI means Acceptable Performance Will Include (labels a cognitiv 4. EPA - Environmental Problem Area.



PREFACE

students about their environment, help is ready. Thanks to the efforts ers, year long meetings, a summer workshop, university consultants and neans realistic, developed aid for you. Please note the following ideas chers in writing and editing this guide.

mentary in nature and the episodes are designed -- at appropriate instan-

isting, logical course content.

offers suggestions. Since you know your students best, you decide what use. By design, the range of suggestions is wide; your chances for experiare even wider. Many episodes are self-contained, others open-ended, still d in part or developed more keenly over a few weeks. you to explore.

try the episodes and suggested learning experiences but please prere simple. No guide has all the answers and no curriculum will work context of your classroom situation. Thus, before trying an episode, ding, check over the resources listed, make mental and actual notes, and seek help. The Project personnel and teachers listed on the ackand ready to aid your efforts. Feel free to ask their help in pre-planning. Materials Center serves all CESA 3, 8, and 9 area schools -- public and nd available materials pre-paid. Call for any help, materials, or to 38.

ect ICE Bibliography in your school library for available Resource lease offer suggestions, comments, or advice -- at any time -- so that this t's help each other.

the guide by reacting to it with scratch ideas, notes, and extended pisode pages or use the attached evaluation format, which will be colext year and will be used in our revisions. We sincerely want your ions--negative and positive. Please note that some resources listed efer to specific, local community resources or conditions. In such ool districts and teachers will have to adopt local or available subterms pertinent to the episodes is below.

experts have simplified the issue--survival--vours, mine, our students, complexity--often noted as the work of a genius--will take our genius ave. A year's work by a hundred of your fellow teachers is a saving , their work will crumble, and so might we all--literally. Instead,

feel, and act in harmony with our world.

Editorial Board measurable mental skill, ability, or process based on factual data. o student attitudes, values, and feelings. ble Performance Will Include (labels a cognitive or mental performance.) 1 Problem Area



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CESA 3

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nette Ednajean Purcell, OSU[.] W-Marinette David West, Lawrence U. Robert Cook, UWGB Dennis Bryan, UWGB



C 1. Energy from the sun, the basic source 0 Discipline Area N of all energy, is converted through Subject E plant photosynthesis into a form all T living things can use for life pro-Problem Orientation E cesses. SUGGESTED LEARNING BEHAVIORAL OBJECTIVES Cognitive: The students Student-Centered in class II will be able to point out activity how life dpends on the sun 1. Children will bring poems by listing ways, dramato class concerning the suh. tizing poems, creative 2. As individual poems are writing of poems, and read, each student will jot choral reading. down ways in which life de-Affective: The children pends on the sun. will praise the sun as a 3. Discussion will follow of basic source of energ the ways in which life deeven through poetry. pends on the sun after each poem or after all peoms are Skills to be Learned read. 59-70-0135-1 Dramatizing 4. The children can use the Listing poem on back for choral Creative writing reading using light, Discussion medium, and dark voices. Using library resources 5. The children can form Choral reading into groups, each group Analysis choosing a poem to dramatize putting emphasis on how the sun helps us. 6. The children can write short poems telling about the energy of the sun; e.g.: I wait for the sun each morn ESEA When each new day is born. To see each lovely thing. What new life it will bring.

rom the sun, the basic source

gy, is convert	ed through	Discipline Area	Language <i>F</i>	Arts
synthesis into	a form all	Subject	Language A	Arts
gs can use for	life pro-	Problem Orientat:	ion Energy	Grade4
AL OBJECTIVES	- CCDDCD:	SUCCESUED LE	ARNING EXPERIEN	ICES
he students	I. Student	-Centered in class		le Reso rce and
to point out		-centered in crass	l,	
ds on the sun	activity	on will haine noo	1	lty Activities
ys, drama-		en will bring poer		
creative		ss concerning the	sun.	•
ems, and		lividual poems are		
g.	-	each student will;		
he children		nys in which life	ue i	
he sun as a	-	on the sun.	م	•
of energy -	•	ssion will follow		•
poetry.		ys in which life do		
pocor,	•	on the sun after ea		
Learned	-	after all peoms	are	•
	read.	473 46.		* .
		nildren can use the	e · · · · ·	
ting		back for choral		
ving .	-	g using light,		
y resources		, and dark voices.		
ng		nildren can form		
****		roups, each group		
j	choosii	ng a poem t o drama. Atting emphasis on	-	,
	_			
		e sun helps us.	:	
		nildren can write		
		poems telling		
		the energy of the		
	sun; e	•		
		for the sun each	·	
1	morn,		·	
		each new day is		
	born,	4 49 44 2 4 4		
		e each lovely thing		*
	What i	new life it will b	ring.	

Resource and Reference Materials

Publications:

Man (In a Poetic Mode)

McDongal, Littell & Co.

Poems:

On A Sunny Evening - Anonymous Children

Song for the Sun that Disappeared Behind the Rainclouds, Primitive African Trans. Ullibeier.

Audio-Visual:

Community:

Continued and Additional Sug

Song for the Sun That Dis

The fire darkens, the wood The flame extinguishes, mu God sets out in search of The rainbow sparkles in his the bow of the divine hu He has heard the lamentate He walks along the milky

With quick arms he piles piles them up with quick like a woman who collect and piles them into her until the pot overflows until the basket overflo

Primitive African (Ho Translated by Ulli B



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- Anonymous

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at Disappeared

ids, Primitive

Continued and Additional Suggested Learning Experiences

Song for the Sun That Disappeared Behind the Rainclouds

The fire darkens, the wood turns black.
The flame extinguishes, misfortune upon us.
God sets out in search of the sun.
The rainbow sparkles in his hand,
the bow of the divine hunter.
He has heard the lamentations of his children.
He walks along the milky way, he collects the stars.

With quick arms he piles them into a basket, piles them up with quick arms like a woman who collects lizards and piles them into her pot, piles them up until the pot overflows with lizards until the basket overflows with light.

Primitive African (Hottentot)
Translated by Ulli Beier

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	C 2. All living organisms in	teract among	•	
	O N themselves and their envir C	onment,	Discipline Area	Langu
	E forming an intricate unit	called	Subject	Engli
	T an ecosystem.		Problem Orientation	Ecosy
ESEA Title III - 59-70-0135-1 Project I-C-E	BEHAVIORAL OBJECTIVES Cognitive: Each child will write an imaginative story of one day in the life of a plant or animal observed in the patch or clump of earth. Affective: They will learn to enjoy nature as it is without man. Skills to be Learned Using descriptive language Sentence structure Paragraphing Imagination Using card catalog	activitie 1. Read prints creature themselore creature what mandering 2. Write take preading animal	SUGGESTED LEARNI t-Centered in class	

isms in	teract amou	ng				
r envir	onment,	Discipline Area	Language Art	S		
e unit	called	Subject	English			-
		Problem Orientation	n Ecosystem	Grade	4	•
TIVES		SUGGESTED LEARN	IING EXPERIENCE	<u> </u>		
tive ne imal or learn is	activit 1. Read simil creat thems creat what durir	ent-Centered in class	II. Outside Community	Resource		
nguage	take anima write	part of any plant or al found in study and about - My Day in a of Grass.				



Resource and Reference Materials Continued and Additional Su.

Publications:

Books:

Concepts in Science 4 p. 135-73 and p. 175-209.

Under a Tree by Elizabeth Madox Roberts - Viking Press.

Our Living World of Nature by

McGraw-Hill Book Co.

The Life of the Cave The Life of the Ocean The Life of the Marsh

The Life of Rivers & Streams

The Life of the Pond

The Life of the Seashore

The Life of the Desert

The Life of the Mountains

The Life of the Prairies & Plains

Margaret Waring Buck, Abingdon In Woods & Fields

In Ponds & Streams

Audio-Visual:

String & stakes or shovels Several reading glasses Plastic bags or wide-mouth glass jars for carrying earth samples Movie projector

Film:

Life in a Cubic Foot of Soil BAVI 5677 - 11 min.

Continued and Additional Suggested Learning Experiences Materials p. 135-73 eth Madox ture by Streams hore rt tains ries & Plains Abingdon rels outh ng earth

of Soil

Environmental factors are limiting Discipline Area Langua on the numbers of organisms living N C E within their influence, thus, each Subject Langua Popula P T environment has a carrying capacity.(3) Problem Orientation Densit SUGGESTED LEARNING EXPE BEHAVIORAL OBJECTIVES Cognitive: List 5 ways Student-Centered in class II. that the classroom becomes activity too crowded & uncomfortable 1. Teacher asks, "What would for good learning. happen if our principal (Ex, - poor air, noise, near, said we needed to have 18 ness, no room for walking, more students put into our no room for experiments, rather small classroom?" teacher can't find time to Discussion: talk to students. a. Conditions for learning Affective: Defend the b. Conditions for activities idea that all plants, c. Conditions for noise animals & people can be-Take notes. come too many for a given area and this causes a lack of quality. Skills to be Learned Concentration of a concept Making observat_ons Taking notes Reporting (objective description)

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cors are limiting Discipline Area Language Arts organisms living Language Arts Subject lence, thus, each Population carrying capacity. (3) Problem Orientation Density Grade SUGGESTED LEARNING EXPERIENCES ECTIVES II. Outside Resource and Student-Centered in class ways Community Activities activity becomes 1. Teacher asks, "What would fortable happen if our principal said we needed to have 18 se, near, more students put into our alking, rather small classroom?" ents, Discussion: time to a. Conditions for learning b. Conditions for activities the c. Conditions for moise s, Take notes. in begiven es a ns i.ve

Resource and Reference Materials	Continued and Additional Suggested Le
Publications:	

<u>Audio-Visual</u>:



Materials | Continued and Additional Suggested Learning Experiences



			• •
	C 4. An adequate supply of p	oure	
	N water is essential for lif	e. Discipline Area	Lang
	C E	Subject	Engl Adeq
	P T	Problem Orientation	_
	BEHAVIORAL OBJECTIVES	SUGGESTED LEARN	ING EX
	Cognitive: The child will	I. Student-Centered in class	II.
	show that he understands	activity	C
	the water cycle by writing	1. Read aloud poems to	i I
	an imaginative story about	contrast moods.	
III.	a water molecule.	2. Interpret through panto-	
Ų	Affective: The student	mine and creative dance	
1	will read a favorite poem about water to the class.	the moods of music and poems (especially those	
Ų,	about water to the class.	starred). Children become	
ec	Skills to be Learned	raindrops, ocean waves,	•
Proj	Interpreting poetry	snowflakes, plants,	
Pr	and music	animals, etc.	
, ,	Reacting physically to	3. Dramatize the water	
7	poetry and music	cycle incorporating	
5-1	Creative writing	feeling & moods from	
013		poems & music with facts	
1		from science or social	
0		studies-include polluting	
7-6		agents into dramatization.	
59		4. Write imaginative story "The Travels of the Water	
1		Molecule."	
Н		Morecare:	
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ssential for life.	Discipline Area	Language Arts
•	Subject	3 dish
	Problem Orientation	Water Supply Grade 4
AL OBJECTIVES	SUGGESTED LEARN	ING EXPERIENCES
understands cle by writing ve story about cule. The student favorite poem to the class. Learned g poetry ysically to usic iting	Student-Centered in class ctivity Read aloud poems to contrast moods. Interpret through pantomine and creative dance the moods of music and poems (especially those starred). Children become raindrops, ocean waves, snowflakes, plants, animals, etc. Dramatize the water cycle incorporating feeling & moods from poems & music with facts from science or social studies—include polluting agents into dramatization. Write imaginative stery "The Travels of the Water Molecule."	II. Outside Resource and Commun_ty Activities

Resource and Reference Materials

Continued and Additional Suggested

Publications:

Books:

Wind Song by Carl Sandburg

p. 23 Sea Wisdom, Harcourt,
Brace, & World p. 63

Niagara, p. 106* Summer Grass
Let Freedom Ring, Hallmark Cards

Navajo Chant.

Little Hills - Sam Bryan, p. 51

Tap Roots & Tips, Wells Printing
Co., Madison.

The Poems of Robert Frost, p. 263

Spring Fools, Random House.

Miracles by Richard Lewis,
p. 56 hain; Simon & Schuster.

AAudio-Visual:

Record:

La Mer; Debussy.

ence Materials

Continued and Additional Suggested Learning Experiences

Sandburg
Harcourt,
63
Summer Grass
Hallmark Cards

Bryan, p. 51 Wells Printing

Frost, p. 263
lom House.
Lewis,
& Schuster.

	c 4. An adequate supply of p	oure	
	O N <u>water is essential for li</u> f	Ce. Discipline Area	Language I
	C E P T	Subject Problem Orientation	English Adequate Water Supp
_	DEMANTADAT OBTECUTIVES	SUCCESTED LEARN	TMC EYPERTE
ESEA Title III - 59-70-0135-1 Project I-C-E	child will write a report or make a poster or chart recording information gained. Affective: The child will be able to orga- nize information about adequate vater supply. Skills to be Learned Correct letter form Notetaking Summarizing Sentence structure Paragraphing Spelling	I. Student-Centered in class activity 1. Write letters to water plant and/or sewage disposal plant requesting permission to visit-use text for correct form. 2. Discuss how to take notes. 3. Write reports of field trips for school paper, newspaper, children's own writing notebooks, bulletin board, office, reports to P.T.A. etc. Or, Make posters and charts showing how water is obtained & distributed & how sewage is collected, treated & disposed of. 4. Write thank-you notes. 5. Read poem The Tide River" about pollution in 19th century.	II. Outsic Communation Field and American Communation Follows and American Community Follows and American Comm

ial for li	e. Discipli	lae Area	Language Arts	5		
-	Subject		English			
·	Problem	Orientation	Adequate Water Supply	Grade _	Ц	
BJECTIVES	SUG	ESTED LEARNI	NG EXPERIENCES	·		gelegenheityjósági Plankvepank
child will	I. Student-Centered	i in class	II. Outside F			
n correct	activity		Community			
esting	1. Write letters		l. Field t	-	_	
it plant	plant and/or se	· ·		sewage di		-
e who	posal plant requ		Follow w	ith disc	ussion	• *
id each	permission to v	ł				
a report	text for correct	l l			•	
or chart	2. Discuss how to					
ition	3. Write reports					
hild	trips for school					•
rga-	newspaper, child					
about	writing notebook	•				
ipply.	letin board, of	- ,				•
spbrù.	ports to P.T.A.	7				·
ned	Make posters and		•		. •	
orm	showing how wat tained & distri					•
	•					
	how sewage is co	•				
ıre	treated & dispo	1				
	## Write thank-you 5. Read poem "The					
	River" about po				s.	
	19th century.	TTUOTOII TII				

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

Books:

concepts in Science, Book 4, p. 61-94, Harcourt, Brace, & World.

The Social Sciences-Concepts & Values 4 - p. 86-94. Harcourt, Brace & World.

Our Language Today 4 - p. 219-230. p. 87-99. American Book Company.

Poem:

"The Tide River" Charles
Kingsley. Illustrated Treasury
of Poetry for Children. David
Ross - Grosset & Dunlap.

Audio-Visual:

Large sheets of cardboard

ook 4, race, &

Materials

ncepts & Harcourt,

p. 219an Book

es Treasury n. David ap.

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Continued and Additional Suggested Learning Experiences

	C 5. An adequate supply of cl	l <u>ean air i</u> s				
	N essential because most orga	anısms	Discipline	Area _	<u>Language</u>	Ar
	C E depend on oxygen, through	<u>respiratio</u> n,	Subject		L a nguage	Ar
	E depend on oxygen, through a P. to release the energy in the	neir food.	Problem Or	ient a ti	on <u>Clean</u>	Ai
	BEHAVIORAL OBJECTIVES		SUGGES	TED LEA	RNING EX	PEF
	Cognitive: Each child give a 1/2 minute pantomine on how the object gets air.	I. Student- activity	Centered in	class	1	Ou Com A.
三-C-正	Affective: The teacher will stimulate a conversation					a. p
 	about how air is used by other things including					o n
roject	plants, animals & machines. The students will volunteer]	Β. t
ተ ጉ	to research for answers to above.					t i
35-1	Skills to be Learned					
-01	Dramatize Linking action &					
02-6	thought-through imagination	,				
- 59						
H	•					
Title						
F.S.F.A						
Ĺ.						



supply of clean air is Discipline Area Language Arts se most organisms Subject n, through respiration, Language Arts Grade 4 Problem Orientation Clean Air energy in their food. SUGGESTED LEARNING EXPERIENCES BJECTIVES II. Outside Resource and I. Student-Centered in class child give Community Activities activity omine on A. Each child brings a ts air. picture of a plant, eacher will animal or machine (exsation cluding people) which ised by need air. iding B. Discuss how all these machines. things use our air-is volunteer the air now as clean as nswere it was before its use. ned

Resource and Reference Materials Publications:

Continued and Additional Suggester

Audio-Visual:

Pictures or objects such as (toy cars, trains, fish, etc.)

rials Continued and Additional Suggested Learning Experiences

etc.)



6. Natural resources are not equally N distributed over the earth or over Discipline Area Langua E time and greatly affect the geographic Subject Langua T conditions and quality of life. Problem Orientation Resourc BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPE I. Student-Centered in class Cognitive: Student will II. answer factual questions activity on the resources of his 1. Students role-play a choice. natural resource (rain, Affective: Each child trees, etc.) will respond to the teacher: 2. Each student chooses one Do you think you picked a resource. good resource to show that 3. Students ask questions natural resources are not answered by role-player. distributed equally? Why 4. Questions ought to be on or why not? the availability & quantity left on Earth of their parti-Skills to be Learned cular resource. Locating and taking notes on a selected item Standing before class to role-play.

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ces are	tion education						
the eart	h or over	Discipline	Area	Language	Arts		
affect t	he geographic	Subject	الدوالية	Language	Arts		
ality of	life.	Problem Or	ientation	Resource	<u>Usage</u> Gr	ade	
ECTIVES		SUGGES	TED LEARN	VING EXPERI	ENCES	<u> </u>	*********
will tions his his cked a low that life not Why	natural trees, e 2. Each s resource 3. Studen answered 4. Questi the avai	-Centered i ts role-pla resource (r tc.) tudent choo ts ask ques by role-pl ons ought t lability & Earth of th	n class y a ain, ses one tions - ayer. o be on quantity	II. Outs Communication Reserved In International I	ide Reso nity Act seach of	urce and ivities resourc	
ass to			·				

Resource and Reference Materials Publications:

Continued and Additional Sugge

Audio-Visual:

Materials | Continued and Additional Suggested Learning Experiences

	C 7. Factors such as facilitat	ing transportation,
	O N <u>economic conditions, populat</u> C	cicn growth, Discipline Area Language
	E and increased leisure time h	nave a great Subject Language
	T influence on changes in land centers of population densit	
	BEHAVIORAL OBJECTIVES Cognitive: Children will	SUGGESTED LEARNING EXP
70-0135-1 Project I-C-E	perform, through pantomine, a clear idea on a leisure time activity. Peers will interpret pantomine & the children should differentiate between harmless and harmful. Affective: The teacher will provide a list of leisure time activities (play) to be classified into suitabilities for children, young people & adults. Skills to be Learned Dramatization Making judgements	4. Each activity is listed on the board & class discussion as to whether this activity caused a harmful effect on our environment.
- 59-	Making judgements	5. Children may classify these leisure time activities into suitabilities for: Young
TTT		Children People Adults
u)		Reading x x x Bike
Titl		riding x x x Building
Ą		blocks x
SEA		Baseball x x x
E	Commence of the second of the second of	Singing x x x
		Playing
		dolls x
		Swimming & x x
		138

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facilitating transportation, , population growth, Discipline Area Language Arts Language Arts ire time have a great Subject Grade 4 Problem Orientation Leisure Time es in land use and SUGGESTED LEARNING EXPERIENCES ion density. II. Outside Resource and TIVES I. Student-Centered in class will Community Activities activity tomine, A. Classroom isure 1. Teacher will ask the will students, "What is leisure time? 2. How many hours of n leisure time do we have during a school day? a her will week-end? summer time? isure 3. Children choose a leisure y) to be time activity to dramatize. abilities: 4. Each activity is listed on people & the board & class discussion as to whether this activity caused a harmful effect on our environment. 5. Children may classify these leisure time activities into suitabilities for: Young Children People Adults X Reading Bike X X riding Building blocks X X Baseball X χ X X Singing Playing X dolls, X X Swimming

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Resource and Reference Materials | Continued and Additional Sugges | Publications:

Audio-Visual:



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			ş · ·		$\mathcal{X} = \{ \mathbf{x} \in \mathcal{X} \mid \mathbf{x} \in \mathcal{X} \mid \mathbf{x} \in \mathcal{X} \mid \mathbf{x} \in \mathcal{X} \}$
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		ing to see the second s			
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	onere, en tratagnet propositioner op 1998 blev til 199 Storre til 1998 blev til 1				omena (1975) ya Lagras Albarasania (1975) ilikulika. Kata Kanada anga kata anga kata anga kata kata at kata anga kata anga kata anga kata anga kata anga kata anga

8. Cultural, economic, social, and N political factors determine status Discipline Area E of man's values and attitudes Subject T toward his environment. Problem Orientation Attitude BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPERI Cognitive: Each student Student-Centered in class will demonstrate his attiactivity tude toward his environ-1. Read several poems to ment through the media of children. writing poetry. 2. Discuss the type of person Affective: Color in natura who could write things like enhances our lives. Shall this about color. How do you we change this natural think she feels about her color by pollution? environment. 3. Discuss the senses she Skills to be Learned should have to use. Coservation 4. Depending on the season Writing roetry of year, concentrate on an appropriate color: green or brown, blue, or white, etc. 5. Write a poem telling about the color being emphasized.

II. Outs Commu

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Problem Orientation Attitudes

Grade 4

L OBJECTIVES ch student te his attis environhe media of

environment.

lor in nature ives. Shall natural tion?

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SUGGESTED LEARNING EXPERIENCES Student-Centered in class activity

- 1. Read several poems to children.
- 2. Discuss the type of person who could write things like this about color. How do you think she feels about her environment.
- 3. Discuss the senses she should have to use.
- 4. Depending on the season of year, concentrate on an appropriate color: green or brown, blue, or white, etc. 5. Write a poem telling about

the color being emphasized.

Outside Resource and II. Community Activities

- 1. Children, armed with notebooks and a pencil, go outside and look for things that color, touch and collect if reasonable. Smell, perhaps taste. Do you hear anything from that color?
- 2. Library:
 - a. Read additional poems
 - b. Do research on Mary O'Neill.

Resource and Reference Materials

Continued and Additional Suggested Learning

Publications:

Hailstones and Halibut Bones,
Mary O'Neill, Doubleday & Co., Inc.,
Garden City, N.Y., 1961.

Audio-Visual:

Recordings of poems and nature sounds to set up "walk" experience.

Community:

State Historical Society other sources of nature poems

erials | Continued and Additional Suggested Learning Experiences

co., Inc.,

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8. Cultural, economic, social, and Discipline Area N political factors determine status E of man's values and attitudes Subject T toward his environment. Problem Orientation At SUGGESTED LEARNING BEHAVIORAL OBJECTIVES Cognitive: Through writing Student-Centered in class Ι. II. poetry and copying other activity poet's poetry about nature 1. Introduce pupils to the man's values and attitudes idea of what an anthology toward his environment of poems is by having them become more concrete. select poems which they en-Affective: We can praise joyed. Explain what anthology our surroundings through means. the poetic words of others 2. Pupils read favorite poems and ourselves. to class. Skills to be Learned Reading roetry Writing poetry Listening to poetry

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economic, social, and ctors determine status

Discipline Area Language Arts

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Language Arts

Cultural

Problem Orientation Attitudes

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vironment.

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oetry

- SUGGESTED LEARNING EXPERIENCES Student-Centered in class I. activity
 - 1. Introduce pupils to the idea of what an anthology of poems is by having them select poems which they enjoyed. Explain what anthology means.
 - 2. Pupils read favorité poems to class.

- II. Outside Resource and Community Activities
 - 1. Library
 - a. Divide class into groups to locate in library categories of poems dealing with nature. Categorize poems into "Animals" Trees, "Flowers," etc.
 - b. Pupils add own poems to copied poems to assemble booklet with their own paintings, printing and cover.
 - c. Invite other classes to hear poems and see booklets.
 - d. Booklets could be given to shut-ins.

Resource and Reference Materials

Continued and Additional Suggested Lear

Publications:

Children's Anthology.
Poetry by following writers:
Eugene Field
Robert Louis Stevenson
Henry Longfellow
James Kiley
The MacMillan English Series 4,
MacMillan Co., 1969.

Audio-Visual:

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terials

Continued and Additional Suggested Learning Experiences

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Discipline Area Langu

Subject

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Problem Orientation <u>I</u>

BEHAVIORAL OBJECTIVES

Cognitive: After examining the waste paper collection of the classroom or school, the class will prepare a tape, slide or picture presentation of the amount of paper used.

Affective: Students will in some way of their own choice, attempt to improve

Skills to be Learned
Group discussion
Preparation of slides
Prepare a talk
Interview

natural resources.

the manner in which they

& their peers can conserve

SUGGESTED LEARNING
I. Student-Centered in class
activity

A. Classroom

- 1. There is a rule of thumb after quoted: 19 trees produce a ton of paper. Have student think in terms of 1 tree producing 200 lbs. of paper.
- 2. Weight the amount of used paper discarded in the class or entire school if possible each day for a week or more.
- 3. Equate this to the number of trees it required to make this paper.
- 4. Break into small groups to discuss the ways this situat can be improved. What can the do about it?
- 5. Then discuss how they can convince their classmates of the need & the way for the wise use of paper. Possibil:
 - a. Panel discussion
 - b. Prepare slides & a talk
 - c. Prepare slides accompani a student prepared tape
 - d. Make posters
 - e. Make a large tree, animatuse Use children's voices live taped for the talking tree

erm economic gains may

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Discipline Area Language Arts

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Problem Orientation Land Use

Grade 4

RAL OBJECTIVES

fter examining er collection room or school, ll prepare a or picture of the amount

Students will of their own npt to improve

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SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class

activity

A. Classroom

- 1. There is a rule of thumb after quoted: 19 trees produce a ton of paper. Have student think in terms of 1 tree producing 200 lbs. of paper.
- 2. Weight the amount of used paper discarded in the class or entire school if possible each day for a week or more.
- 3. Equate this to the number of trees it required to make this paper.
- 4. Break into small groups to discuss the ways this situation can be improved. What can they do about it?
- 5. Then discuss how they can convince their classmates of the need & the way for the wise use of paper. Possibilities:
 - a. Panel discussion
 - b. Prepare slides & a talk
 - c. Prepare slides accompanied by a student prepared tape
 - d. Make posters
 - e. Make a large tree, animate. Use children's voices live or taped for the talling tree.

- II. Outside Resource and Community Activities A. Teacher ---
 - 1. Measure their attempt to change the behavior of their peers.
 - 2. For another week or more, weigh. the amount of scrap paper.
 - 3. Interview other teachers to find out if they can notice a conscious attempt on the part of students to use paper wisely.

Resource and Refer	ence Materials	Continued and Additional	Suggested Learning
Publications:			
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C 11. Individual acts, duplicated Discipline Area Language N or compounded, produce significant E environmental alterations over time. Subject Descript Problem Orientation Land SUGGESTED LEARNING EX BEHAVIORAL OBJECTIVES Cognitive: Children will I. Student-Centered in class []. Ot write two (or more) activity descriptive paragraphs - at 1. Use language textsleast one factual and one sections on writing desimaginative - showing criptions-factual and changes in environment imaginative and writing H affected by man. paragraphs. The child 2. Using social studies Affective: will choose something texts, books about Wiswhich has been changed consin history, Wisconsin since white man came magazines, etc., to find to Wisconsin. He will out what Wisconsin was like offer reasons why this before white men arrived. is good or bad. 3. Write then and now descriptive paragraphs show-Skills to be Learned ing how man has affected Writing of descriptions his environment in Wiscon-Writing of paragraphs sin. Observations a. Factual paragraph Making comparisons b. Imaginative paragraph Expressing reactions or 4. Observe one thing observed feelings clearly on field trip or from H Sentence structure children's previous exper-Spelling ience and describe it in a descriptive paragraph. a. Factually b. Imaginatively-expressing personal feeling or reaction to thing observed.

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lual acts, duplicated led, produce significant Discipline Area Language Arts Subject Descriptive Writing al alterations over time. Problem Orientation Land Use Grade 4 SUGGESTED LEARNING EXPERIENCES RAL OBJECTIVES Student-Centered in class nildren will r more) activity 1. Use language textsparagraphs - at ctual and one sections on writing des-- showing criptions-factual and imaginative and writing nvironment nan. paragraphs. 2. Using social studies The child pictures. texts, books about Wissomething consin history, Wisconsin en changed nan came magazines, etc., to find He will out what Wisconsin was like why this before white men arrived. ıd. 3. Write then and now des-

II. Outside Resource and Community Activities 1. Field trip to observe

things in our environment which makes it more beautiful and/or uglier. Keep notes and/or take

Learned escriptions aragraphs

isons eactions or arly icture

- a. Factual paragraph
- b. Imaginative paragraph

criptive paragraphs show-

ing how man has affected

his environment in Wiscon-

- 4. Observe one thing observed on field trip or from children's previous experience and describe it in a descriptive paragraph.
 - a. Factually

sin.

b. Imaginatively-expressing personal feeling or reaction to thing observed.

Resource and Reference Materials

Continued and Additonal Suggested Lear

Publications:

Language textbook:

Our Language Today -4, pp. 168-174,

American Book Company

Books about Wisconsin:

Exploring Wisconsin, Follett Publishing Co., 1967.

The Enchantment of America-

Wisconsin, Children's Press, 1964.

Badger Tales, Lyons & Cornahan, 1940.

Magazines about Wisconsin:

Badger History

Wisconsin Tales and Trails

Audio-Visual:

Pictures of Wisconsin before coming of white man.

Pictures of present day

Wisconsin.

Wisconsin travel brochures

Camera and film

Community:

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SEA Title III - 59-70-0135-1 Project I-C-E	Cognitive: Each child will express his opinions about industralized neighborhood situations in a letter written in correct form to editor, tusiness or Congressman. Affective: Each child will choose an area the class visited or another one he prefers & list the misuse or the good use of the natural resources. Skills to be Learned Observation Analyzing Correct letter form Expressing ideas & feelings in clear Courteous language	I. Student-Centered in class activity	NING EXPERIMANT Outside Communial A. Outside I. Find how or reside
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Resource and Reference Materials

Continued and Additional Sugge

Publications:

Language textbook - Urit on correct letter form Science and/or social studies text -How man has changed environment

Audio-Visual:

List of name & addresses of newspapers, businesses concerned, Congressmen, etc.

Community:

Local business leader
Farmer
City official
These can all be interviewed by students or they can give a talk to the class

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Materials Continued and Additional Suggested Learning Experiences on correct udies text ironment of concerned, ewed by ve a

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PROJECT I-C-E

Episode Evaluation F (Reproduce or duplicate as

In commenting on each episode used in your class, you format. Please feel free to adapt it and add more pages. comments - negative and positive.

I. Behavioral Objectives A. Cognitive:

B, Affective:

II. Skills Developed

III. Suggested Learning Experiences
 A. In Class:

B. Outside & Community Activities

IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

on each episode used in your class, you may wish to duplicate this suggested feel free to adapt it and add more pages. Let us know all your critiques and ive and positive.

Objectives

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Project I - C - E INSTRUCTION - CURRICULUM - ENVIRONMEN ED05591 A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION DISCIPLINE AREA Language Arts GRADE 5 Produced under Title III E.S.E.A. PROJECT I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Robert Warp Green Bay, Wisconsin 54301 (414) 432-4338 Robert Kell George Howi

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INSTRUCTION - CURRICULUM - ENVIRONMENT

PROGRAM FOR ENVIRONMENTAL EDUCATION

Language Arts GRADE 5

Title III E.S.E.A.

in CESA's 3-8-9 t onsin 54301

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



- E

PREFACE

If you wish to excite students about their environment, help is ready. If of over a hundred teachers, year long meetings, a summer workshop, university ecologists, this guide means realistic, developed aid for you. Please note which have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are designed -- at

ces -- to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know your students to adapt, adopt, or use. By design, the range of suggestions is wide; you mentation and usage are even wider. Many episodes are self-contained, ot others can be changed in part or developed more keenly over a few weeks.

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning experiences plan. The reasons are simple. No guide has all the answers and no curr unless viewed in the context of your classroom situation. Thus, before give it a triple reading, check over the resources listed, make mental a prime your students, and seek help. The Project personnel and teachers 1 knowledgement page stand ready to aid your efforts. Feel free to ask the

4. The Project Resource Materials Center serves all CESA 3, 8, and 9 area s private. We will send available materials pre-paid. Call for any help,

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school library for avai Center materials. Please offer suggestions, comments, or advice--at any

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch ideas, no suggestions on the episode pages or use the attached evaluation format, lected in late May next year and will be used in our revisions. We since reactions and suggestions—negative and positive. Please note that some in the episodes may refer to specific, local community resources or condicases, individual school districts and teachers will have to adopt local stitutes. A list of terms pertinent to the episodes is below.

7. Ecologists and other experts have simplified the issue--survival--vours, Creation's beauty and complexity--often noted as the work of a genius--wi and human energy to save. A year's work by a hundred of your fellow tead gesture. Without you, their work will crumble, and so might we all--lite

let us live to think, feel, and act in harmony with our world.

T. Cognitive means a measurable mental skill, ability, or process based of

2. Affective refers to student attitudes, values, and feelings.

3. APWI means Acceptable Performance Will Include (labels a cognitive or 4. EPA - Environmental Problem Area.



PREFACE

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Materials Center serves all CESA 3, 8, and 9 area schools--public and
and available materials pre-paid. Call for any help, materials, or to

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, feel, and act in harmony with our world.

Editorial Board

measurable mental skill, ability, or process based on factual data.

to student attitudes, values, and feelings.

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al Problem Area.



ACKNOWLEDGEMENTS: The following teachers and consultants participated i of the Supplementary Environmental Education Guide:

CESA #3

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CESA #8 Lowell Baltz, Weyauwega William Behring, Lourdes David Bell, Neenah Marie Below, Cliatonville William Bohne, Kimberly Bob Church, Little Chute Ronald Conradt, Shiocton Lee Halberg, Appleton Ronald Hammond, Hortonville Jerome Hennes, Little Chute Barbara Huth, Menasha Darrell Johnson, Hortonville Bernadyne King, Neenah Harold Lindhorst, St.Martin (L) John Little, Winneconne Gordon Rohloff, Oshkosh William Schaff, St. Joseph Doris Stehr, Mt. Calvary (L) Carolyn Shills, New London Sister Dorothy, Xavier Clarence Trentlage, Freedom Mike Hawkins, Xavier Beth Hawkins, Xavier Ed Patschke, Menasha Connie Peterson, St. Martin (L) Dallas Werner, Kaukauna Ron Schreier, Omro

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Carmella Joan Char

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Rev. B. F

Robert Ha

Russ Hans

Paul Kane

Roy Lukes

Sister An

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George Pe

Alan Schu

Thomas We

Ruth Wind

James Wiz

John Torg

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Greg Schm

John DeWa Emmajean Ray Gante David Bar ne following teachers and consultants participated in the development f the Supplementary Environmental Education Guide:

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tte Ednajean Purcell, OSU Marinette David West, Lawrence U.

Robert Cook, UWGB Dennis Bryan, UWGB C 1. Energy from the sun, the basic source

N of all energy, is converted through Discipline Area Langua
C plant photosynthesis into a form all Subject Creati
P living things can use for life processes.

BEHAVIORAL OBJECTIVES SUGGESTED LEARNING E

BEHAVIORAL OBJECTIVES
Cognitive: Students through
creative writing will state
the important effects of the

sun on nature.

Affective: Children will defend the fact that things on the earth are dependent upon the sun's energy.

Skills to be Learned Writing skills:
Functuation Capitalization
Etc.
Creative imagination

I. Student-Centered in class activity

A. Pupil writing as Mr. Sun:
"How do I effect things on
earth from sunrise to sunset."

II.

C

- 1. As the sun awakes and arises in the morning how does it effect a leaf, a child, a house, the grass, the air: at noon and at evening are the effects the same or does it change?
- B. Plants in room
 - 1. One grown with the sun and the other without the sun.

ERIC Full Text Provided by ERIC

sun, the	basic source	e		·				
onverted	through	Discipline		4 4		· .		
s into a	form all	Subject	0	reative W		<u></u>		
se for li	fe pro-	Problem Or				rade _	5	
	cesses.	SUGGES	TED LEARN	ING EXPER	{IENCES_			
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-	"How do	I effect t	nings on					
will	earth f	from sunrise	to sun-					
things	set."			}				
endent	1. As	the sun awa	akes and					
	l aris	ses in the m	norning					
y .	how	does it eff	fect a			•	and the second second	
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Resource and Reference Materials

Continued and Additional Suggested

Publications:

Film:

Mr. Sun, Bell Telephone (1 hr)

Audio-Visual:

Posters-bright colors
Appropriate music-suggesting
sunrise-sunset
Music teacher and librarian
could offer suggestions

Community:

Local photographer could talk about the sun-its impact on camera shots, photo-effects, etc. aterials Continued and Additional Suggested Learning Experiences (1 hr.) ing an

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C	2. All living organisms interact	. 9	
N	among themselves and their environment,	Discipline Area	Langu
C E	forming an intricate unit called an	Subject	Vocat
P T	ecosystem.	Problem Orientati	on Ec

BEHAVIORAL OBJECTIVES
Cognitive: Students will
accurately match ecological
terms & meanings with 90%
accuracy.
Affective: Student sug-

Skills to be Learned
Environmental words and
their meanings.
Using these words.

gests ecological words

and their meanings.

SUGGESTED LEARNING
I. Student-Centered in class
activity

- A. Teacher and students draw up a list of ecological words. (Suggested list on back)
- B. Together teacher and students look up definitions of words and discuss how they are used. If not completed in class, students will finish list on their own.
- C. Review all words and their definitions. Teacher gives matching test.
- D. The student looks for examples of these ecological terms in the home environment and reports the results to the class.

ng organisms interact

elves and their environment, Discipline Area Language Arts

intricate unit called an

Subject

Vocabulary

Problem Orientation Ecosystem

Grade 5

AL OBJECTIVES udents will ch ecological ngs with 90%

udent sugcal words nings.

Learned words and S. rds.

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Teacher and students draw up a list of ecological words. (Suggested list on back)
 - B. Together teacher and students look up definitions of words and discuss how they are used. If not completed in class, students will finish list on their own.
 - C. Review all words and their definitions. Teacher gives matching test.
 - D. The student looks for examples of these ecological terms in the home environment and reports the results to the class.

II. Outside Resource and Community Activities A. Find use of words in newspapers, ads, and speeches.

Resource and Reference Materials Publications:

Audio-Visual:

Non-verbal activities to reinforce abstractionsposters, collage, pantomine, skits, dance. Oral synonyms game.

Illustrative:

Free educational materials from:

Local businesses Travel agencies

DNR

State Historical Society National Wildlife Federation

Continued and Additic

Possible Words:

- 1. Environment
- 2. Survival
- 3. Ecology
- 4. Energy
- 5. Population
- 6. Culture
- 7. Value
- 8. Economic
- 9. Stewardship
- 10. Inherit
- 11. Deterioration
- 12. Interdependent
- 13. Interaction
- 14. Limitless
- 15. Distribute
- 16. Photosynthesis
- 17. Capacity
- 18. Manipulate

1		
ence Materials	Continued and Additional	Suggested Learning Experiences
	Possible Words:	
	1. Environment	19. Violate
	2. Survival	20. Erosion
,	3. Ecology	21. Pollution
	4. Energy	22. Pesticide
	5. Population	23. Odor
es to	6. Culture	24. Exhaust
ions-	7. Value	25. Sewage
panto-	8. Economic	26. Radiation
•	9. Stewardsnip	27. Incinerate
,	10. Inherit	28. Silt
aterials	11. Deterioration	29. Drainage
~ 001 TOTD	12. Interdependent 13. Interaction	30. Litter
	14. Limitless	3]. Beautify
,	15. Distribute	32. Detergent
	16. Photosynthesis	33. Decay
Society	17. Capacity	34. Bacteria
e Federation	13. Manipulate	35. Aroma

0 3. Environmental factors are limiting N on the numbers of organisms living Discipline Area E within their influence, thus, each Subject T environment has a carrying capacity. Problem Orientation Carr BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EX Cognitive: Students will Student-Centered in class observe how a sufficient activity supply of oxygen is neces-1. Read about how to keep sary for fish to survive. (gold)fish in school -Keep a daily log & evaluupkeep, food. ate it. 2. Stock a fishbowl with Affective: The student one or two fish; then supports that oxygen is add one more at a time a necessity for life in (several days apart) water; there is a limit until it is noticeable to number of fish per that the fish are searchsquare inch of water. ing for oxygen by their continued rising to the Skills to be Learned top. Notetaking 3. Keep a daily account Observing (on critical days per-Setting up physical haps an hourly log) on apparatus reaction of fish, if Evaluating data notices of lack of oxygen are evident. ESEA

Lang

Log

II.

tal factors are limiting Language Arts Discipline Area s of organisms living Log writing & Reporting Subject influence, thus, each Problem Orientation Carry CapacityGrade 5 as a carrying capacity. SUGGESTED LEARNING EXPERIENCES OBJECTIVES Outside Resource and Student-Centered in class II. dents will Community Activities activity ufficient 1. Read about how to keep en is neces-(gold)fish in school o survive. upkeep, food. g & evalu-2. Stock a fishbowl with one or two fish; then e student add one more at a time xygen is (several days apart) life in until it is noticeable s a limit that the fish are searchish per ing for oxygen by their water. continued rising to the top. earned 3. Keep a daily account (on critical days perhaps an hourly log) on rsical reaction of fish, if notices of lack of oxygen ta are evident.

Resource and Reference Materials
Publications:
Fish-keeping book

Continued and Additional Sugge

Audio-Visual:

Community: Visits by:

Pet shop owner
Fish hatchery representative
Biology teacher



nce Materials

Continued and Additional Suggested Learning Experiences

entative



An adequate supply of pure Discipline Area N Subject water is essential for life. Problem Orientation BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Cognitive: Using the first Student-Centered in person, groups of 2 or 3 class activity students will write their 1. Class discusses water feelings of Mr. Water in its cycle(view film if handy). There is pracdifferent forms. Affective: Students will tically the same support that water in its amount of water on the many different forms is earth now as there was essential for life. thousands of years ago. 2. Talk about different forms of Mr. Water... Skills to be Learned. i.e., clouds, fog, dew, first-person creative snow, rain, hail, ice, writing aquifier. Research 3. Class groups of 2 or 3 choose a water form and research their form of Mr. Water and write in first-person, their feelings of Mr. Water, SUGGESTIONS: Make illustrations to accompany their story and display them.

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S	essenti				

Discipline Area _ Language Arts

Subject

<u>Language Arts</u>

Problem Orientation E.P.A. Water

Grade 5

IORAL OBJECTIVES Using the first oups of 2 or 3 ill write their f Mr. Water in its

forms. Students will at water in its rent forms is for life.

be Learned! son creative

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in

class activity 1. Class discusses water cycle(view film if handy). There is practically the same amount of water on the earth now as there was

thousands of years ago. 2. Talk about different forms of Mr. Water... i.e., clouds, fcg, dew, snow, rain, hail, ice,

aquifier.

3. Class groups of 2 or 3 choose a water form and research their form of Mr. Water and write in first-person, their feelings of Mr. Water. SUGGESTIONS:

Make illustrations to accompany their story and display them.

II. Outside Resource and Community Activities

Resource and Reference Materials

Continued and Additional Sugges

Publications:

Busy Water, Irma Simonton Black, E 551.4 (water cycle described) B56

Wonders of Snow and Ice, Christie McFall 551.5

551.5 M163

Water for Your Community, Edward Radiauer 628.1

B 119

Dittoed excerpts from Rachel Carson's "The Sea Around Us" (some interesting sections about origins and chemistry of water - non-technical)

Annotated Chacklist of 200 Short Films for Writing Classes Thinois Assn. of Teachers of English, Urbana, Ill. 35¢

Audib-Visual
Waters From the Mountain, "16mm. sound, 20 min. (snow)

Community:

Materials Continued and Additional Suggested Learning Experiences on Black, e described) achel nd Us" ions istry of 200 Short ses hers 1. 35¢ in,"16mm.



N essential because most organisms depend Discipline Area E on respiration to supply the oxygen Subject Problem Orientation T needed to release the energy in their food. BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Cognitive: Students will give Student-Centered in campaign speech citing his class activity solutions to air pollution 1. Conduct speech contest problem. on "I am against air Affective: Through campaignpollution because...When ing, the students will elected I will...(to stop challenge the political air pollution)" complexity of an environ-2. Have the children premental issue. tend they are running for office (as mayor or other local office) and 59-70-0135-1 Skills to be Learned they must convince their audience that "I am Organization and compiling against air pollution a speech. because....and when I Cral presentation as am elected I will...(do competition. what to stop air pollu-Techniques of balloting tion)" and voting. After speeches the class will cast ballots and vote for their best candidate. 3. Winning candidate might give his report to other classes. SUGGESTIONS FOR PREPAR-ATION: 4. Tape speeches to be replayed by individuals for self exam of speech skills or judged by local (cont.)

C 5. An adequate supply of clean air is

ERIC Full that Provided by ERIC

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mate supply of clean air is

pecause most organisms depend

Discipline Area

Language Arts

tion to supply the oxygen

Subject

Speech

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Problem Orientation E.P.A. Air Grade 5

RAL OBJECTIVES udents will give ech citing his air pollution

rough campaignlents will political an environ-

Learned

and compiling

ation as

f balloting

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - 1. Conduct speech contest on "I am against air pollution because...When elected I will...(to stop air pollution)"
 - 2. Have the children pretend they are running for office (as mayor or other local office) and they must convince their audience that "I am against air pollution because ... and when I am elected I will...(do what to stop air pollution)"

After speeches the class will cast ballots and vote for their best candidate.

- 3. Winning candidate might give his report to other classes.
 - SUGGESTIONS FOR PREPAR-ATION:
- 4. Tape speeches to be replayed by individuals for self exam of speech skills or judged by local (cont.)

II. Outside Resource and Community Activities.



Resource and Reference Materials

Publications:

Vital speeches-periodical excerpts or dittoed parts of speeches dealing with ecology.

HEW - reports, speeches by Sec. Udall.

Silent Spring (excerpts)
Robert Carson

Thirty Basic Speech

Experiences - Clark

Publishing Co, Pokatello,
Idaho

4-H Form for judging speaking contests - 4-H Soil and Water Conservation.

Audio-Visual:

Community:

Continued and Additional Suggested

I. (cont.)
people.

Materials

Continued and Additional Suggested Learning Experiences

1 excerpts eches
by Sec.

O, aking



C 6. Natural resources are not equally N distributed over the earth or over Discipline Area Lang C E Diar time and greatly affect the geographic Subject Natu P Reso Problem Orientation conditions and quality of life. SUGGESTED LEARNING EX BEHAVIORAL OBJECTIVES By the means II. Cognitive: Student-Centered in class I. or a diary, the student activity will record their obser-1. After outside observations, vation of birds & related the children come back inconditions on given days. side to write their obser-Affective: Through the vations in a first-person diary (first person diary gathering of information may have to be explained to and recording of data, class by teacher-with examthe student will suggest ples.) The diary should reasons for the varying number & species of birds consist of an 8-page bookletper day. left half of page for diary & right half for pictures Skills to be Learned of birds observed that dayl. Observing birds (The first day may take more time to construct a booklebweather seasons could use a regular 8 1/2 Writing a first-person 11" sheet of paper folded in diary half for one day's work. The diary should be a personal possession and neither teacher nor other students may read it if so wished by writer. O

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the earth or over Discipline Area Language Arts

affect the geographic Subject Diary
Natural
Problem Orientation Resources Grade 5

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Student-Centered in class activity 1. After outside observations, the children come back inside to write their observations in a first-person diary (first person diary may have to be explained to class by teacher-with examples.) The diary should consist of an 8-page bookletleft half of page for diary & right half for pictures of birds observed that day. (The first day may take more time to construct a bookletcould use a regular 8 1/2 k 11" sheet of paper folded in half for one day's work. The diary should be a personal possession and neither teacher nor other students may read it if so

SUGGESTED LEARNING EXPERIENCES ered in class | II. Outside Resource and Community Activities

1. Teacher explain that this is a project that will take place on the Mondays of April & May (day or months may change to suit class schedule.)

The first fifteen minutes the children will go outside looking for birds (Their color, sounds, habits, name) and also note any significant weather conditions that might explain why there are so many birds or the lack of birds on each particular Monday.

The children may wish to take notes while outside if they don't think they can remember all the information.

wished by writer.

Resource and Reference Materials

Continued and Additional Suggested Le

Publications:
Library books on birds
Hooked on Books, Dr. Foder,
chapter on "The Journal".

Audio-Visual: Bird chart

Bird chart Tapes of bird songs - National Wildlife or Audubon

Community:

is Foder, rnal".

ace Materials

National



Continued and Additional Suggested Learning Experiences

,					
	C 7. Factors such as facilita	<u>ting tran</u> spo	rtation,		_
	N economic conditions, popular	tion growth,	Discipl:	ine Area _	Language Ar
	C E <u>and increased leisure time</u> l	<u>have a gr</u> eat	Subject	, _	Expository
	T influence on changes in land		Problem	Orientati	on <u>Land Use</u>
+	centers of population densi- BEHAVIORAL OBJECTIVES	ty.	SIIC	ATOMEN TEA	DUTMA EVDET
1		I. Student-			RNING EXPER
	film or field trip, students		Delivered	In Crass	Communi
	write their impressions on	acorvios		1	A. Intr
띰	how highways change the use	1		1	A. Intr
	of the land.	1		i	or ru
瞐	Affective: Students dispute	1)	of fi
- 1	the question of the basic	1		; /	Peopl
Project	necessity of good land use.	1		,	local
7.16		1		!	enorm
PC	Skills to be Learned	1		1	for h
4	Expository writing	1		1	B. With
-1	Questinning			ı	write
17	Discussion	1		l	these
3	Draw conclusions	1		i	C. Each
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s such as facilitating transportation,

activity

conditions, population growth, Discipline Area Language Arts

ased leisure time have a great Subject

on changes in land use and

problem Orientation Land Use

population density.

ORAL OBJECTIVES

SUGGESTED LEARNING EXPERIENCES

Through use of

I. Student-Centered in class II. Outside Resource and

Through use of d trip, students impressions on change the use

Students dispute of the basic good land use.

Learned writing

sions

II. Outside Resource and Community Activities

- A. Introduction of land use (either for highway exchange or rural work land) by means of film Highways are For People or by a field trip to local express exchange to see enormous amount of land used for highways.
- B. Without discussion, students write their impressions of these types of land use.
- C. Each student reads his impression out loud. Rest of class asks questions or adds comments.
- D. Class tries to summarize or come up with a general conclusion of their impression.

Resource and Reference Materials

Continued and Additional Suggested Lea

Publications:

National Safety Council, AAA

Audio-Visual: Film:

Highways Are For People, 1968, 16 mm, Sound, 27 min., Federal Highway Administration

Community:
Road Commissioner or good representative

terials

Continued and Additional Suggested Learning Experiences

AA

1968, ration

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C 8. Cultural, economic, social, and N political factors determine status Discipline Area Langua of man's values and attitudes Subject Readir T toward his environment. Problem Orientation Food (SUGGESTED LEARNING EXPE BEHAVIORAL OBJECTIVES Cognitive: Students will Student-Centered in class II. list in order the food activity chain of an animal and 1. Teacher introduces the describe the effect that lesson quoting John Muir: takes place if this chain "When we try to pick out is broken. anything by itself, we find Affective: The child it hitched to everything else submits evidence that in the universe." natural Project interference with any resources. single segment of any 2. Children - Think, then chain of living things write down the chain of can cause problems. dependency. 3. Class discussion to agree Skills to be Learned or disagree with John Muir. 59-70-0135-1 Logical thinking 4. Teacher reads part of Thinking in sequence America's Endangered Wild-Cause & effect life to the class.

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economic,	social,	and

ctors determine status

Discipline Area Language Arts

ues and attitudes

Subject

Reading

nvironment.

Problem Orientation Food Chain Grade

L OBJECTIVES udents will the food imal and ffect that this chain

e child ce that ith any of any g things lems.

earned ing equence

SUGGESTED LEARNING EXFERTENCES I. Student-Centered in class activity

- 1. Teacher introduces the lesson quoting John Muir: "When we try to pick out anything by itself, we find it hitched to everything else in the universe." natural resources.
- 2. Children Think, then write down the chain of dependency.
- 3. Class discussion to agree or disagree with John Muir.
- 4. Teacher reads part of America's Endangered Wildlife to the class.

II. Outside Resource and Community Activities

1. Use the out-of-doors or go to school windows to observe the chain of dependency. Ex. - The killing off of the fox -What happens to the rabbits? Porcupines? Squirrels? Mice? Shrews? etc.

Resource and Reference Materials Publications:

Continued and Additional Suggeste

America's Endangered Wildlife by George Laycock.

Audio-Visual:
Audubon Food Chain chart

Community:
National Wildlife Federation
(publications)
National Audubon Society

rials Continued and Additional Suggested Learning Experiences

e by

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C 8. Cultural, economic, social, and N political factors determine status Discipline Area E of man's values and attitudes Subject T toward his environment. Problem Orientati BEHAVIORAL OBJECTIVES SUGGESTED LEA Cognitive: Given a wildlife I. Student-Centered in class stamp the students through activity creative writing, will A. Teacher or pupil places express their ideas on a conservation stamps pollution free environment (National Wildlife) on as is illustrated in the front table. stamps. 1. Each child chooses ar Affective: The student will one of the group. volunteer to express his 2. Child pastes this on creative ideas about the

Skills to be Learned Creative writing

stamps.

59-70-0135

Title

ESEA

writing or composition paper.

3. Teacher suggests the children to now write a poem, paragraph. story or just write statements about their stamp.

4. Display these papers.

ral, economic, social, and l factors determine status Discipline Area Language Arts values and attitudes Subject Creative Writing is environment. Problem Orientation Attitudes Grade 5 IORAL OBJECTIVES SUGGESTED LEARNING EXPERIENCES Given a wildlife I. Student-Centered in class II. Outside Resource and students through activity Community Activities riting, will A. Teacher or pupil places eir ideas on a conservation stamps free environment (National Wildlife) on strated in the front table. 1. Each child chooses any The student will one of the group. to express his 2. Child pastes this on deas about the writing or composition paper. 3. Teacher suggests the be Learned children to now write writing a poem, paragraph, story or just write

statements about their

4. Display these papers.

stamp.

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Resource and Reference Materials Publications:

Continued and Additional Sugge

Audio-Visual:

National Wildlife Stamp or any colorful stickers Start a picture library and thus involve students

Community:
Audubon Society National Geographics
Wis. Historical Society

Continued and Additional Suggested Learning Experiences

or any and thus

Materials



59-70-0135-1

O 9. Man has the ability to manage.

N manipulate, and change his
C environment.
P

Discipline Area Languag

Subject

Speech Nat

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Problem Orientation Res

SUGGESTED LEARNING E

BEHAVIORAL OBJECTIVES

Cognitive: By writing & presenting a speech for a radio presentation, the students will acknowledge their part in managing their environment.

Affective: The students

Affective: The students will promote individual & community involvement in environmental problems by presenting a radio broadcast.

Skills to be Learned

Speech writing
Tape presentation
Poetry writing (to song)
Feeling of pride in
their community

I. Student-Centered in class activity

- A. Classroom activity
 - 1. Teacher & students plan what can be presented as a radio environment program:
 - a. Local problem areas
 - b. Ways children of all ages can get involved
 - c. Community involvement
 - 2. Each student writes his view of one of the above topics to be used as a speech.
 - 3. Speeches are taped (to prevent individual favoritism) & then listened to by class to choose the ones to be used as the radio broadcast.
 - 4. Students practice presentations on tapes.
 - 5. Possibly, the children could write words to a familiar tune to open & close the program.

has the ability to manage,

late, and change his

Discipline Area Language Arts

nment.

Subject

Speech Writing & presentation

Natural

Problem Orientation Resources

Grade

AVIORAL OBJECTIVES

e: By writing & ng a speech for presentation, the will acknowledge rt in managing vironment.

The students e: mote individual & y involvement in ental problems by ng a radio broad-

o be Learned writing esentation writing (to song) of pride in community

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

- A. Classroom activity
 - 1. Teacher & students plan what can be presented as a radio environment program:
 - a. Local problem areas
 - b. Ways children of all ages can get involved
 - c. Community involvement
 - 2. Each student writes his view of one of the above topics to be used as a speech.
 - 3. Speeches are taped (to prevent individual favoritism) & then listened to by class to choose the ones to be used as the radio broadcast.
 - 4. Students practice presentations on tapes.
 - 5. Possibly, the children could write words to a familiar tune to open & close the program.

- Il. Outside Resource and Community Activities A. Other activity
 - 1. Have some of the students contact the radio station to see if they can come to school or if they may go to the studio.

Resource and Reference Materials Continued and Additional Suggested L

Publications:
30 Basic Speech Experiences,
Clark Publishing Co.

Audio-Vasual:

Community:
Local radio announcer



Continued and Additional Suggested Learning Experiences

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N	produce long-term envir	onmental
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Ε	losses,	
P		
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Discipline Area <u>Lang</u>

Subject

Writ

Problem Orientation U

SUGGESTED LEARNIN

BEHAVIORAL OBJECTIVES

Cognitive: By writing a before and after account of a forest logging operation, the student will realize that a short-time gain may produce a long-term environmental loss.

Affective: Students will compare short-term ains and long-term effects of forest management.

Skills to be Learned
Discussion
Writing
Making comparisons
Skill of foresight

I. Student-Centered in class activity

A. Classroom

- 1. Teacher & students discus a hypothetical situation where maple lumber is sudd in great demand (for some product). I, as an owner of large maple forest, have a chance to make a great deamoney if I harvest all the maple trees in my woods. Me neighbors are convinced of same thing, so we contract logging firm to cut all outrees.
- Class discussion as to wh may be the implications of such a procedure.
- 3. Write a "before and after account of the area.
- 4. The students may want to a sketch of "before and af view of the area.



term economic ga	ins may	
ong-term environm	ental Discipline Area <u>Language</u>	Arts
	Subject Writing	
	Resour	
	Problem Orientation Usage	Grade 5
ORAL OBJECTIVES	SUGGESTED LEARNING EXP	FRIENCES
By writing a	I. Student-Centered in class	II. Outside Resource and
after account of activity		Community Activities
gging operation,	A. Classroom	Our dulity Accivioles
will realize	1. Teacher & students discuss	
t-time gain may	a hypothetical situation	
ong-term	where maple lumber is suddenly	
al loss.	in great demand (for some new	
Students will	product). I, as an owner of a	
rt-term gains	large maple forest, have a	
rm effects of	chance to make a great deal of	
gement.	money if I harvest all the	Mark Control of the C
	maple trees in my woods. My	
<u>e Learned</u>	neighbors are convinced of the	
	same thing, so we contract a	。
	logging firm to cut all our	
parisons	trees.	
oresight	2. Class discussion as to what	
	may be the implications of	
	such a procedure.	
	3. Write a "before and after"	
	account of the area.	
	4. The students may want to draw	
	a sketch of "before and after"	
	view of the area.	, ·

ERIC Full Text Provided by ERIC

Resource and Reference Materials

Continued and Additional Suggested

Publications:

Conservation, Nat'l Wildlife
College of Agriculture bulletins,
County Forester Office

<u>Aud⁴</u>

1:

ity Library, 8 mir t Murmurs, Color

Filmstrip:

Brown County Library, Enemies of the Forest, 634.9

Forest Conservation, 634.9

Our Feest & What they Mean to Us, 634.9

Community:

dlife bulletins,

Materials

Continued and Additional Suggested Learning Experiences

8 min.,

Enemies of

634.9 y Mean to

11. Individual acts, duplicated or compounded, produce significant Discipline Area Language environmental alterations over time. Subject Writing Problem Orientation BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXP Cognitive: Through I. Student-Centered in class II. Ou recognition of air activity 1. Teacher and students pollution by identification of three air pollutants-by present ideas of sun's smelling, seeing and feelrays not being able to ing-students write their reach the earth. opinions on how these 2. Discuss: affect them. a. known pollutants-Affective: The heat and clouds, smog, smoke rays of the sun could be from chimneys stopped by a blanket of b. how they affect me earth's pollutants. and my neighbors -Students vill evaluate sight, smell, health how this affects them. cheir thoughts on Lac _on and its affects Skills to be Learned on the sun and us. Writing of opinions Discussion

Ener

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al acts, duplicated Discipline Area Language Arts d, produce significant Writing Subject l alterations over time. Problem Orientation Energy Grade 5 SUGGESTED LEARNING EXPERIENCES II. Outside Resource and OBJECTIVES I. Student-Centered in class Community Activities ugh activity 1. How clear is the air. air 1. Teacher and students Look at pollution and lentlfication present ideas of sun's ollutants-by their causes. rays not being able to ng and feel-2. Interview local factory reach the earth. Wny? rite their owner, farmer and Depart-2. Discuss: w these ment of Natural Resource a. known pollutan 3representative. clouds, smog, smoke 3. Visit fertile and polluted heat and from chimneys n could be land plots - near school, b. how they affect me lanket of nearby farm. and my neighbors ants. sight, smell, health evaluate 3. Write their thoughts on Section 1 to the contract of t ts them. pollution and its affects on the sun and us. earned nions

ERIC Full Text Provided by ERIC

Resource and Reference Materials Publications:

Continued and Additional Sugge

Audio-Visual: Photographs Local slides-student made Three dimensional model of land plot-student made and illustrated with graphic-polluted effect.

Community: Interview local

erials Continued and Additional Suggested Learning Experiences

C 12. Private ownership must be reO garded as a stewardship and should
C not encrouch upon or violate
P

the individual right of others.

Discipline Area Language Arts

Subject

Language Art

Problem Orientation Conservation

BEHAVIORAL OBJECTIVES

Cognitive: The students
will survey an area report
their findings to the
class, discuss the issue
and finally list ways to
remedy a situation where

remedy a situation where private ownership should be regarded as a steward-ship and should not en-

croach upon an inlate the individual right of others.

Affective: Students will share pleasure and satisfaction in resolving an issue after class discussion especially on stewardship.

Skills to be Learned
Surveying
Discussion
Listing
Report of statistics

I. Student-Centered in class activity

1. Discussion could follow reports on outside activities to list ways they as fifth graders could remedy this abuse.

SUGGESTED LEARNING EXPERIENT ed in class II. Outside Communi

1. Stude of law

- city egiven a cit; see he of bie
- 3. Report the c

mus	st he re-		٠.,	-		· 7	<i>t</i>	
lp a	and should	Discipline Area	I	anguage	Arts		· · · · · · · · · · · · · · · · · · ·	-
710	late	Subject	- I	anguage	Arts			-
of (others.	Problem Orientat	ior	Conserv	ration	Grade	_ 5	-
ES		SUGCESTED LI	CARN	ING EXPE	RIENCE	3	-	
	I. Student-C	entered in class		II. Out	side Re	esource		
ort					•	Activit		
	l. Discuss	ion could follow		Y .			rvey	
	_	on outside acti-					_ in are	
	vities t	to list ways they					g in the	
!		n graders could					ssigned	
ļ	remedy t	his abuse.		gi	ven ar	ea (for	example	2
K7•				0,000 a	city b.	lock) to	o check	to
							nd examp	
he				01	bicyc.	te abus	e of law	ns.
		٠.					indings	to
,				tr	ne clas	S •		
1			•					
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				. 4		e a triber.		
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er de de la faction de la faction de la company de la comp

Resource and Reference Materials Publications:

Continued and Additional Suggested

Audio-Visual:
Bicycling riding filmThe Day the Bicycle Disappeared
AAA Foundation for Traffic for
Safety (Local automobile clubs)

Community:
Local park commissioner or
street commissioner
"Victims" of bicycle damage
(local person on block whose
lawn has been damaged.)



erence Materials

Continued and Additional Suggested Learning Experiences

ilme <u>Disappeared</u> r Traffic for omobile clubs)

ioner or er le damage block whose aged.)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

In commenting on each episode used in your class, you may wish to format. Please feel free to adapt it and add more pages. Let us kn comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences A. In Class:
 - B. Outside & Community Activities
- IV. Suggested Resource & Reference Materials (specific suggestions & comments)





PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

on each episode used in your class, you may wish to duplicate this suggested feel free to adapt it and add more pages. Let us know all your critiques and live and positive.

bjectives

loped

earning Experiences

Community Activities

source & Reference Materials ggestions & comments)



Project I - C - E

INSTRUCTION - CURRICULUM - ENVIRONME

ED055919

A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts GRADE 6

Produced under Title III E.S.E.A. PRCJECT I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Robert War Robert Kel George Hov INSTRUCTION - CURRICULUM - ENVIRONMENT

PROGRAM FOR ENVIRONMENTAL EDUCATION

Language Arts GRADE 6

Title III E.S.E.A.

in CESA's 3-8-9

onsin 54301

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist

E

PREFACE

If you wish to excite students about their environment, help is reof over hundred teachers, year long meetings, a summer workshop, unecologics, this guide means realistic, developed aid for you. Plea which have directed teachers in writing and editing this guide.

1. This guile is supplementary in nature and the episodes are design

ces--to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know your stuto adapt, adopt, or use. By design, the range of suggestions is we mentation and usage are even wider. Many episodes are self-contain others can be changed in part or developed more keenly over a few

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning expeplan. The reasons are simple. No guide has all the answers and unless viewed in the context of your classroom situation. Thus, give it a triple reading, check over the resources listed, make me prime your students, and seek help. The Project personnel and teak knowledgement page stand ready to aid your efforts. Feel free to

4. The <u>Project Resource Materials Center</u> serves all CESA 3, 8, and 9 private. We will send available materials pre-paid. Call for an

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school library for Center materials. Please offer suggestions, comments, or advice-

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch id suggestions on the episode pages or use the attached evaluation for lected in late May next year and will be used in our revisions. We reactions and suggestions—negative and positive. Please note that in the episodes may refer to specific, local community resources cases, individual school districts and teachers will have to adopt stitutes. A list of terms pertinent to the episodes is below.

7. Ecologists and other experts have simplified the issue--survival-Creation's beauty and complexity--often noted as the work of a ger and human energy to save. A year's work by a hundred of your fell gesture. Without you, their work will crumble, and so might we as let us live to think, feel, and act in harmony with our world.

T. Cognitive means a measurable mental skill, ability, or process

2. Affective refers to student attitudes, values, and feelings.
3. APWI means Acceptable Performance Will Include (labels a cognit

4. EPA - Environmental Problem Area.



PREFACE

excite students about their environment, elp is ready. Thanks to the efforts ed teachers, year long meetings, a summer prks op, university consultants and s guide means realistic, developed aid for ou. Please note the following ideas cted teachers in writing and editing this gaide.

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grow. Let's help each other.

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ed other experts have simplified the issue--survival--yours, mine, our students, auty and complexity--often noted as the work of a genius--will take our genius rgy to save. A year's work by a hundred of your fellow teachers is a saving hout you, their work will crumble, and so might we all--literally. Instead,

o think, feel, and act in harmony with our world.

Editorial Board means a measurable mental skill, ability, or process based on factual data. refers to student attitudes, values, and feelings.

Acceptable Performance Will Include (labels a cognitive or mental performance.)

ronmental Problem Area.



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Robert Cook, UWGB Dennis Bryan, UWGB

John Hussey, Green Bay

Sister Barbara, St. Bernard



Gillett

N of all energy, is converted through E plant photosynthesis into a form all T living things can use for life pro-BEHAVIORAL OBJECTIVES Cognitive: The student will demonstrate the proper letter writing form by writing a letter to Mr. Sun. Affective: Students will identify with the life giving forces of the sun. The student will accept the sun's work in spite of man's desires. Skills to be Learned Letter Writing Review of Paragraphs Punctuation Spelling Penmanship

C 1. Energy from the sun, the basic source;

Discipline Area Lan

Subject

Subject Wri

proper Problem Orientation cesses.

SUGGESTED LEARNI
I. Stu int-Centered in class
activity

A. Discuss form for letter writing-(friendly letter)

B. Review in group discussion, our dependence on the sun.

C. View film or appropriate filmstrip-charts.

D. Write a letter to Mr. Sun, choice:

1. Expressing appreciation of what he does.

Expressing dissatisfaction over disrupted plans.

3. Relating any experience i which you and the sun were involved.

4. Requesting a specific kin of weather.

Relating to the sun something you know about him.

the	sun,	the	basic	source;

is converted	through	Disciplin	e Area	Lang	uage Arts		
		Subject		Writ.	ing - Lette	r Writing	
thesis into a	, TOTAL ALL	Dubjeco		111 320	11.6		
an use for 1	ife pro-	Problem 0	rientat	ion _	Energy	Grade	6
	cesses.						
DBJECTIVES					G EXPERIENC		
student	I. Student-	Centered 1	n class	3	II. Outside		
the proper	activity		•		Communit	y Activit:	ies
orm by	A. Discus	s form for	lette	'n			
to Mr. Sun.	writing	-(friendly	lette	?)			
ents will	B. Review	in group	discus	sion,			
e life		endence or					
the sun.	C. View f	ilm or app	ropria	te			
accept	filmstr	ip-charts.	_				
n spite	D. Write	a letter t	o Mr.	Sun,			
•	choice:		1				
	1. Expr	essing app	reciat	ion			
rned	of wh	at he does	; .				
	2. Expr	essing dis	satisf	action	1		
		disrupted					•
	3. Rela	ting any e	experie	nce in	1		
	which	you and t	he sun	were			
	invol	ved.					
	4. Requ	esting a s	specifi	c kind	l		
	, -	eather.	-				
	5. Rela	ting to the	ne sun	some-	1		
	E	you know					
	1	•			1		

Resource and Reference Materials Publications:

Continued and Additional Suggested I

Books:

English text for 6th grade, for letter form. Science texts. Encyclopedias.

Audio-Visual:
Our Mr. Sun, film-Bell Telephone
Any appropriate filmstrips Any appropriate charts

Community:

rials

hone

ERIC

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Continued and Additional Suggested Learning Experiences

C 2. All living organisms interact among 0

N themselves and their environment,

Discipline Area Language

E forming an intricate unit called an

Subject Critical

T ecosystem.

Problem Orientation Eco

BEHAVIORAL OBJECTIVES

SUGGESTED LEARNING E

Cognitive: Through the use of reference skills and critical reading, the child will list 5 different examples in which animals interact among themselves to provide a balance in nature.

Affective: Animals are part of a food chain. Critical reading and reference skills enhance avenues to further investigate the interaction of animals to maintain an intricate unit called an ecosystem.

Skills to be Learned

One goal in reference skills is to go to more than one source. Since animals are both predators & prey, a student must research more information about the interaction among animals. Read critically.

- I. Student-Centered in class activity
 - A. Classroom
 - 1. Discuss how animals depend on each other for a food source. Select an animal & investigate what it as eats & what it is a prey of.
 - 2. Use reference material within room to investigate food chain.
 - B. Compare what was discovered on field trip to findings from library work. Discuss similarities & differences.



rganisms interact among

their environment,

Discipline Area Language Arts

icate unit called an

Subject

Critical Reading & Reference

Problem Orientation Ecosystem

Grade 6

BJECTIVES gh the use ls and the child rent animals emselves nce in

ls are ain. and enhance r investiion of in an lled an

ned rence skills than one mals are prey, a arch more the animals.

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

- A. Classroom
 - 1. Discuss how animals depend on each other for a food source. Select an animal & investigate what it eats & what it is a prey of.
 - 2. Use reference material within room to investigate food chain.
- B. Compare what was discovered on field trip to findings from library work. Discuss similarities & differences.

- II. Outside Resource and Community Activities A. Library
 - 1. Go to reference material to check food chain of animals.
 - 2. Write reports on the types of animals that are prey to particular animals, & what animals are its predators.
 - B. Community
 - 1. Visit a zoo, farm, fish hatchery & have guided tour. Discuss the food chain of animals found in area.
 - C. Have a game warden visit the classroom & discuss the intricate food chain necessary to maintain life. Explain why people are allowed to hunt animals such as deer. Discuss what would happen if deer were not killed off by hunters.



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Resource and Reference Materials

Publications:
Encyclopedia
Card catalog
Magazines

Audio-Visual:

Community:
State Historical Society
Wildlife Federation DNR



Continued and Additional Suggested Le

ce Materials

Continued and Additional Suggested Learning Experiences

. 4 . .

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3. Environmental factors are limiting N on the numbers of organisms living Discipline Area E within their influence, thus, each Subject Problem Orientation Car T environment has a carrying capacity. SUGGESTED | EARNING BEHAVIORAL OBJECTIVES Cognitive: The class will Student-Centered in class II I. compose a yes and no quesactivity tionnaire on the issue of 1. Discuss the issue whether a party permit for unting the deer party permit in their state and evaluate

the summary. Affective: The student will argue pro or con that deer party permits are issued according to the carrying capacity of the area.

Skills to be Learned Class discussion Comparing questions for yes & no answers Making a survey Evaluating information in paragraph form.

deer should be allowed in the state of Wisconsin.

- 2. Pupils prepare a questionnaire that could be answered with yes & no about the issue.
- 3. Each student should take one or more questionnaires to different people in their home & community.
- 4. Each student will write his own evaluation of the survey.
- 5. Some students will write an article for the school or local newspaper.

ental factors are limiting

ers of organisms living influence, thus, each has a carrying capacity. L OBJECTIVES ne class will and no questhe issue of y permit in nd evaluate ne student or con ty permits cording to capacity of Learned sion estions for ers *y*ey nformation

Discipline Area Language Arts:

Subject

Survey

Problem Orientation Carry Capacity Grade 6

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in calss activity
 - 1. Discuss the issues whether a party permit for he sing deer should be allowed in the state of Wisconsin.
 - Pupils prepare a questionnaire that could be answered with yes & no about the issue.
 - 3. Each student should take one or more questionnaires to different people in their home & community.
 - 4. Each student will write his own evaluation of the survey.
 - 5. Some students will write an article for the school or local newspaper.

- II. Outside Resource and Community Activities
 - 1. Students will tabulate the results of the questionnaire.



form.

Resource and Reference Materials

Continued and Additional Suggest

Publications:

National Wildlife Magazine, White-Tailed Deer

<u>Audio-Visual</u>:

Films available from the
Department of Natural Resources

Community:

Representative from a local Sportsman Club Representative from the Game Management Division azine,

<u>ce Materials</u>

Continued and Additional Suggested Learning Experiences

the

he sion

ERIC Full Text Provided by ERIC

C Discipline Area 4. An adequate supply of pure water N is essential for life. Subject E Problem Orientati P T SUGGESTED LEARNI BEHAVIORAL OBJECTIVES Cognitive: Through research-Student-Centered in ing and formal speaking, class activity the child will demonstrate 1. Read material on the and project four ways in water cycle. which life patterns are Research areas that formed by the distribuare desert and those tion of water supply. that have adequate Affective: Formal speaking water supply. Find requires necessary research types of life found in into the subject matter to each. Example: camel have a better understandits adaptations. ing of the subject. This Discuss how animal provides a method by which communities survive in the student proposes the areas around a water

river.
4. Discuss how cities are located on or near a source of water. Discuss how the sanitation department must continually check qual-

body such as pond or

ity of water.

5. Assign after researching effects of water supply--student will present a chart talk on how water affects a certain type enimal in its living habits. The child may use only note cards.

A TITLE 111 - 59-70-0135-

importance of pure water

Artificial analysis of the

importance of proper water

supply would be necessary.

From that point, reference

collected would have to be

put into logical order to

present speech to class.

and research skills would

be necessary. The data

supply on all living

Skills to be Learned

things.

TIL OLASE VECE

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lequate supply of pure water

Discipline Area

Language Arts

Subject

Oral report

Problem Orientation E.P.A. Water

Grade 6

CORAL OBJECTIVES

itial for life.

Through researchmal speaking,
will demonstrate
t four ways in
patterns are
the distributer supply.

Formal speaking ecessary research ubject matter to ter understandsubject. This method by which t proposes the of pure water

all living

be Learned
I analysis of the
of proper water
Id be necessary,
point, reference
ch skills would
ry. The data
would have to be
logical order to
beech to class.

SUGGESTED LEARNING EXPERIENCES

I. Student-Centered in class activity

1. Read material on the water cycle.

2. Research areas that are desert and those that have adequate water supply. Find types of life found in each. Example: camel - its adaptations.

3. Discuss how animal communities survive in areas around a water body such as pond or river.

4. Discuss how cities are located on or near a source of water. Discuss how the sanitation department must continually check quality of water.

5. Assign after researching effects of water supply--student will present a chart talk on how water affects a certain type animal in its living habits. The child may use only note cards.

II. Outside Resource and Community Activities

1. Send child to library to gain further information on animal they are researching.

2. Have conservationist talk to class on animal life around water supply.

3. Take class to river bank or small pend and examine an animal life or footprints and make molds. Examine and classify to appropriate animal.

4. Take field trip to sanitation department and explore necessary water treatment facilities.

5. In Fall, take trip to Fox River and note water pollution in process.



Resource and Reference Materials | Continued and Additional Sugges

Audio-Visual:

Community:
Library
Local resources



erials Continued and Additional Suggested Learning Experiences

C 5. An adequate supply of clean air is Discipline Area N essential because most organisms de-Subject E pend on respiration to supply the Problem Orientation E.F. T oxygen needed to release the energy in their food. EFHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPI Student-Centered in Cognitive: Through the use of II. class activity a T.V. commercial technique, 1. Brainstorm kinds of visually demonstrate to the air pollution (put on students the significance of air pollution. board). Affective: The student will 2. Divide class into promote the fact that air groups of 3 or 4. Project 3. Each group picks one pollution is a big problem and is everyone's responsikind of air pollution. bility. 4. Each group will demonstrate a T.V. commer-Skills to be Learned cial on a paper scroll Creative Writing 59-70-0135-1 shown through a card-Convincing someone of the board box T.V. set. significance of an issue. Any form of creative Power of persuasion. writing could be used as the verbial part of the commercial such as poetry, songs (original), narration. Drawings could be in color or black and white. ESEA Title

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Discipline Area Language Arts

to supply the

Subject

Creative Writing-graphic

lease the energy

Problem Orientation E.P.A. Air

Grade 6

TVES use of mique, to the ance of

t will air blem onsi.-

f the sue.

Student-Centered in class activity

1. Brainstorm kinds of air pollution (put on board).

2. Divide class into groups of 3 or 4.

3. Each group picks one kind of air pollution.

4. Each group will demonstrate a T.V. commercial on a paper scroll shown through a cardboard box T.V. set.

Any form of creative writing could be used as the verbial part of the commercial such as poetry, songs (original), narration. Drawings could be in color or black and white.

SUGGESTED LEARNING EXPERIENCES II. Outside Resource and Community Activities

Resource and Reference Materials

Continued and Additional Suggest

Publications: Magazines Newspapers Pamphlets Conservation Dept. D.N.R.

Audio-Visual:
Previous to activity watch
commercials at home and observe: Type of message Length of message Impact of message Type of graphic

Community:



Materials

Continued and Additional Suggested Learning Experiences

ch i



C o. Natural resources are not equally N distributed over the earth or over Discipline Area Ξ time and greatly affect the geographic Subject T conditions and quality of life. Problem Orientation R BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Cognitive: Through re-Student-Centered in class I. II search & critical writing, activity the child will compare & 1. Discuss how communities contrast two communities, are dependent on the geoone affluent & one deprived, graphic conditions, such as such as the Fox River Valley paper making on the Fox and Upper Michigan. River, farming in well-ir-Affective: The child will, rigated lands, recreation by researching two comin wilderness areas. pletely different geogra-2. Make bulletin board display phic areas, demonstrate on ways man is dependent oh 🛝 that he is able to critically the type of conditions withanalyze how man is depenin 2 completely different dent on the various geograregions. Exchange of letphic conditions peculiar ters with other 6th grade to the region. students of different areas. 3. Have students write a Skills to be Learned report on ways people dif-Researching is an intricate fer in the two areas select part of comparing & conted by individuals. Students trasting. The student must should not be allowed to read critically about two copy from book, but instead diverse regions & find simiuse all resources they inlarities & differences caused cluded by means of noteby geographic conditions in taking. order to analyze critically. 4. Use reference material such as encyclopedias, atlas, etc. to compare & contrast two different regions. Also use

the series of books on the

states.

ERIC Full Text Provided by ERIC

sources are not equally

over the earth or over

Discipline Area

Language Arts

atly affect the geographic

Subject

Critical Writing

Natural

nd quality of life.

Problem Orientation Resources

Grade

OBJECTIVES

SUGGESTED LEARNING EXPERIENCES

- cough reeal writing, compare & ommunities, one deprived, x River Valley igan.
- e child will, two coment geogranonstrate e to critically
- n is depenrious geogras peculiar
- earned s an intricate ing & constudent must y about two 8 & find simi~ ferences caused conditions in ze critically.

- Student-Centered in class activity
 - 1. Discuss how communities are dependent on the geographic conditions, such as paper making on the Fox River, farming in well-irrigated lands, recreation in wilderness areas.
 - 2. Make bulletin board display on ways man is dependent oh the type of conditions within 2 completely different regions. Exchange of letters with other 6th grade students of different areas.
 - 3. Have students write a report on ways people differ in the two areas selected by individuals. Students should not be allowed to copy from book, but instead use all resources they included by means of notetaking.
 - 4. Use reference material such as encyclopedias, atlas, etc. to compare & contrast two different regions. Also use the series of books on the states.

- Outside Resource and II. Community Activities
 - Invite a foreign exchange student to speak to class on how people in his country have a justed to their environment.
 - 2. Have agriculture agent speak to class on how a farmer within the state adjusts his crop growth to water supply, soil quality, & weather conditions.
 - 3. Have students interview people within the community to see how they are dependent on the geographic conditions of the area.

Resource and Reference Materials

Continued and Additional Suggested Le

Publications:

Encyclopedias Book series on states

Audio-Visual:

Community:

Chamber of Commerce (write for information of both locations on ways of people depending on geographic conditions)

Agriculture agent (Ways farmers depend on geographic condition & water supply)

County agent

Water department head

County Forester



Materials

Continued and Additional Suggested Learning Experiences

ite n eople

farmers ondition



7. Factors such as facilitating N transportation, economic conditions, Discipline Area Languag E population growth, and increased lei-Subject Creati Problem Orientation Pop T sure time have a great influence on changes in land use and centers of population density. SUGGESTED LEARNING BEHAVIORAL OBJECTIVES I. Student-Centered in class Cognitive: Through creative writing, the child will activity H demonstrate and project 4 A. Class changes in the balance of 1. Discuss what would happen nature necessary if America's if a local city doubles in population doubled. population Affective: The student will a. sacrificed wants. desend his position on the b. sacrificed needs. harmful effects of overc. sanitation problems. population. 2. Plant 2 communities of radish seeds. Observe Skills to be Learned growing patterns. Discuss Critical thinking of nechow people would react essary balance in nature, similarly to the plants. and creative thinking of 3. Discuss what would happen result of imbalance. to the natural resources. Research of overpopulated

areas would be essential.

h as facilitating Discipline Area Language Arts , economic conditions, Creative Writing wth, and increased lei-Subject Problem Orientation Population e a great influence on d use and centers of population density. SUGGESTED LEARNING EXPERIENCES BJECTIVES I. Student-Centered in class gh creative activity ld will A. Class project 4 1. Discuss what would happen alance of if a local city doubles in if America's population ed. a. sacrificed wants. student will b. sacrificed needs. tion on the c. sanitation problems. of over-2. Plant 2 communities of radish seeds. Observe growing patterns. Discuss arned how people would react ing of nec-

similarly to the plants.

3. Discuss what would happen

to the natural resources.

I. Outside Resource and Community Activities

A. Library

1. Locate books about countries with overpopulation (China, India).

Grade 6

- 2. Locate books about pioneer days and the environment.
- B. Community
 - 1. Visit sanitation department to find out about present population problems. Visit other community helpers and have them discuss the importance of their job.
 - 2. Visit a farm with a conservation officer to discuss the intricate balance of nature.



in nature,

inking of

erpopulated

essential.

ance.

Continued and Additional Suggested Le

Resource and Reference Materials

<u>Fublications:</u>

<u>Excerpts from Silent Spring</u>

Rachael Carson

or

Since Silent Spring

Andio Visual: Movie #4050 Food, clothing, and shelter in their environment. Color. B.A.V.I. p.9.

Community:

eterials | Continued and Additional Suggested Learning Experiences

nt.



C 8. Cultural, economic, social and political factors determine status Discipline Area Langua of man's values and attitudes Subject Langua T toward his environment. Problem Orientation Attitu BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXP Cognitive: Through the Student-Centered in class I. II. study of various forms of activity communication including 1. Oral discussion listing verbal & nonverbal, each all the different ways that student will list a minimum man can communicate - incluof 4 ways that cultural, ding those not in use anyeconomic, social and politmore ex. -- smoke signals. Have ical factors determine man's students list on board. values and attitudes toward 2. Evaluate student's work his environment. through an oral test (Verbal Affective: Students will Communication) listing the investigate the fact that different attitudes and values many factors influence man's toward environment that they attitude toward his environment and man expresses these became aware of through through all forms of communitheir interviews. cation which we will divide into 2 groups, verbal and nonverbal. Skills to be Learned Discussion Interview

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nomic, social and Discipline Area Language Arts s determine status Subject Language Arts and attitudes Problem Orientation Attitudes Grade onment. SUGGESTED LEARNING EXPERIENCES JECTIVES h the Student-Centered in class JI. I. orms of activity uding 1. Oral discussion listing , each all the different ways that a minimum man can communicate - inclutural, ding those not in use any-.nd politmore ex. -- smoke signals. Have mine man's students list on board. es toward 2. Evaluate student's work through an oral test (Verbal ts will Communication) listing the ct that different attitudes and values lence man's toward environment that they s environbecame aware of through sses these their interviews. of communi

Outside Resource and Community Activities

- 1. Have students interview 3 to 5 people of different backgrounds on their feelings values & attitudes toward their environment and their concern in maintaining a balanced ecosystem.
- 2. Demonstrate to students by taking a field trip to a local park or recreation area & without verbal communication but by actions, try to do something specific such as picking up litter, etc. They can influence in a favorable way the actions of others.

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Resource and Reference Materials | Continued and Additional Suggested L Publications:

Audio-Virual:

Community:



aterials | Continued and Additional Suggested Learning Experiences



ESEA

C 9. Man has the ability to manage,		
N manipulate, and change his	_ Discipline Area	Languag
E environment.	_ Subject	Drama
T	_ Problem Orienta	ation Con

BEHAVIORAL CBJECTIVES

Cognitive: Through dramatization, each student will demonstrate one specific need of man & one specific want that is not essential to life.

Affective: The student will distinguish between the wants & needs of man.

Skills to be Learned
Dramatization
Discussion
Comparing

SUGGESTED LEARNING E

- I. Student-Centered in class activity
 - A. Classroom activity
 - 1. Discuss the differences between wants & needs.
 - 2. List on board the items that are man's wants & those that are man's needs.
 - 3. Discuss ways in which man has damaged or destroyed his environment through striving for luxuries.
 - 4. Compare primitive man to modern man & point out differences in life style.
 - 5. Assignment: From the list of wants & needs have the students select one of each to dramatize before the group.

ability to manage,

change his

Discipline Area Language Arts

Subject

Drama

Problem Orientation Conservation Grade 6

BJECTIVES ch dramaudent will cecific specific essential

tudent will en the man.

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SUGGESTED LEARNING EXPERTENCES I. Student-Centered in class

- activity A. Classroom activity
 - 1. Discuss the differences between wants & needs.
 - 2. List on board the items that are man's wants & those that are man's needs.
 - 3. Discuss ways in which man has damaged or destroyed his environment through striving for luxuries.
 - 4. Compare primitive man to modern man & point out differences in life style.
 - 5. Assignment: From the list of wants & needs have the students select one of each to dramatize before the group.

- II. Outside Resource and Community Activities
 - A. Enrichment & Expanded Activities
 - 1. Groups will volunteer & develop skits, one dealing with life with only needs and one with depicting life with abundant wants. Compare to life style.
 - 2. Discuss finding a balance between wants & needs to safe guard our environment.
 - B. Library
 - 1. Select material on various societies & compare to our society.
 - 2. Read about pioneers & compare their wants to the wants of society today.



Resource and Reference Materials Publications:

Continued and Additional Suggested

Audio-Visual:

Film:

Neighbors, as described in

An Annotated Checklist of 200

Short Films for Writing Classes,
available from Ill. Assoc. of
Teachers of English, Urbana,
Ill. for 35¢

Community:



200 lasses,

na,

erials

ERIC

Continued and Additional Suggested Learning Experiences

	C 10. Short-term economic gain N produce long-term environmen C E losses. P	
Troject incre	Cognitive: Through dramati- zation the child will demonstrate ways in which man's desire for economic gains have produced long- term environmental losses. Affective: The child will offer evidence of the need for the preservation of our natural resources.	SUGGESTED LEARNING EX I. Student-Centered in class activity A. Classroom l. Have each student select an area they have discovered man has sacrificed his environment for economic gains. Child should stress how man's greed has affected his environment.
1-0770-/	Skills to be Learned Communication Dramatization	· .

mic gains may vironmental Discipline Area Language Arts Subject Drama Problem Orientation Land Use Grade 6 TITES SUGGESTED LEARNING EXPERIENCES anati-I. Student-Centered in class II. Outside Resource and activity Community Activities nich A. Classroom A. Outside classroom 1. Take a field trip omic 1. Have each student select ngan area they have discovered sses. man has sacrificed his will environment for economic need gains. Child should stress \mathbf{f} how man's greed has affected his environment.

- to a farm land that has veen over farmed & crops are poor. 2. Take a field trip to Fox River to observe the polluted areas & discuss how man's demands have hampered the natural
 - 3. Take pictures of areas that have been hampered by man's desire for economic gains.

beauty of its river.

- B. Library Study
 - 1. Have students research in library for ways in which man has created longterm losses by economic gains.
 - 2. Have game warden, county forester or water dept. head talk to class on ways man's greed for economic gains (cont.)

Resource and Reference Materials

Publications:

Newspaper clippings on ways man has cut forest, overused farm land

Pamphlets from county agent on poor agricultural practices Conservation magazine

Continued and Additional Suggested II. (cont.)

has hampered their particular f

Audio-Visual:

Community:

Materials

Continued and Additional Suggested Learning Experiences

II. (cont.)

has hampered their particular field.

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cices

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11. Individual acts, duplicated 0 N or compounded, produce significant Discipline Area Language A E environmental alterations over time. P Subject Writing T Problem Orientation Pollut BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPE Cognitive: Using developed I. Student-Centered in class II. Out slides, the students will activity write a photographic 1. Discuss beautiful or essay to show how man has attractive places students marred the beauty of have seen. Discuss others nature. that are ugly and un-Affective: attractive. What caused Students will criticize actions of the ugliness? themselves and others when they observe an ugly area. 59-70-0135 Skills to be Learned Composing a good picture Writing narrative Oral reading for taping

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erations over time.

Discipline Area <u>Language Arts</u>

Subject

I. Student-Centered in class

1. Discuss beautiful or

attractive places students

have seen. Discuss others

Writing

Problem Orientation Pollution

Grade 6

ECTIVES veloped s will an has

s will rs n ugly

ture oing

SUGGESTED LEARNING EXPERIENCES II. Outside Resource and Community Activities

1. Plan a photographic field trip. Take pictures (slides) of lovely natural scenes. Also take some pictures (slides) of places where man. has polluted or marred the countryside. (Students may take notes to help recall the pictures they've taken). After the pictures are developed and the choice one's selected, the students will write narration to accompany the slides. (Students may bring slides they have at home or may take pictures of pictures.) The narrative should be put on tape and the tape played as the slides are shown. To introduce the part of the tape on lovely scenes, the song "America the Beautiful" could be sung. The song "Pollution" could be sung to introduce the part on the ugly scenes.

that are ugly and unattractive. What caused

activity

the ugliness?

Resource and Reference Materials
Publications:
Magazines with colorful scenes

Continued and Additional Suggested

Audio-Visual:
Camera
Tape recorder

Community:
Local photographer

das i galagia despologico del Alas. Para del Alas de Belogico de Alas de Porto rials Continued and Additional Suggested Learning Experiences

205

committeed against elements of the eccsystem.

C 12. Private ownership must be re-N garded as a stewardship and should

Discipline Area Langua

E not encroach upon or violate

Subject

Lette:

T the individual right of others.

Problem Orientation E

SUGGESTED LEARNING

BEHAVIORAL OBJECTIVES

I. Student-Centered in class activity A. Write various agencies of the Federal and State governments in regard to how man has destroyed the balance of the ecosystem.

Cognitive: Through letter writing and summarizing, the student will list six ways in which one element in the ecosystem has caused an imbalance affecting and violating the rights of others. Affective: Students will suggest to various sources, ways to help guard against any manipulation or manmade changes being

B. Bring papers and magazines and books with articles on how rights have been violated.

Skills to be Learned Peveloping the skill of concise and properly written letters.

C. When material from government agencies is received, have students compile and summarize important points made by the agencies.

Developing the skill of summarizing-being able to pick out the important points each author is making in what they have read; also, summarizing material that they have heard.

1. Several students could write these on a master and run off copies for all students.

D. As a follow-up to these activities, students could write letters to various government officials with their suggestions and also ask them what they could do to help guard against any manipulation or man-made (cont.

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ownership must be re-

stewardship and should

Discipline Area Language Arts

upon or violate

Subject

Letter Writing & Summarizing

al right of others.

Problem Orientation Ecosystem

SUGGESTED LEARNING EXPERIENCES

Grade 6

RAL OBJECTIVES ough letter ummarizing, ill list six one element em has lance violating others. dents will rious sources, guard against ion or manpeing

ainst elements

cem.

Learned ne skill and properly ters. ne skill ing--being k out the oints each aking in what ead; also, material

I. Student-Centered in class activity

- A. Write various agencies of the Federal and State governments in regard to how man has destroyed the balance of the ecosystem.
- B. Bring papers and magazines and books with articles on how rights have been violated.
- C. When material from government agencies is received, have students compile and summarize important points made by the agencies.
 - 1. Several students could write these on a master and run off copies for all students.
- D. As a follow-up to these activities, students could write letters to various government officials with their suggestions and also ask them what they could do to help guard against any manipulation or man-made (cont.)

II. Outside Resource and Community Activities

ave heard.

Resource and Reference Materials

Continued and Additiona

Publications:

State Historical Society books and pamphlets U.S. Office of Education Environmental Problems Agency bulletins, excerpts, free educational materials Student-Centered in class

changes being commit of the ecosystem.

E. Try to make the stud they, as individuals protecting the right elements in the ecos

Audio-Visual:

Student made slides, 8MM films of local conditions

Community:

Speakers:
politician
DNR representative
conservationist
water dept. representative
local contractor
farmer

ence Materials

Continued and Additional Suggested Learning Experiences

ciety

tion

ems

excerpts, terials

Student-Centered in class activity (cont.)

changes being committed against the various elements of the ecosystem.

E. Try to make the students aware through discussion that they, as individuals, can play an important role in protecting the rights of everyone by protecting all elements in the ecosystem.

8MM films

ntative



The State Sea Consisted and Other Therein the worth of the Lines.

C 12. Private ownership must be re-N garded as a stewardship and should Discipline Area Langu E not encroach upon or violate Criti Subject T the individual right of others. Problem Orientation BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Cognitive: The child will Student-Centered in class I. criticize a city and a activity rural community's needs A. Students can write the for pollution control Chamber of Commerce in and how people are intercities located on or near dependent upon people the Fox River. Students within the community. can also write a conser-Affective: The child will vation agent, county criticize the needs for forester, agriculture pollution control and agent, to gain informainterdependency within tion about pollution communities will be in particular areas. shown through his B. Develop a bulletin critical writing. board on comparison of city and rural community Skills to be Learned pollution problems. Researching C. Have city planner, water Observing through sewafe director, or city 50 actual experience sanitary worker visit the Interviewing Critical thinking class and explain pollution problems within the city. D. Ask county forester, agent or conservationist to visit class and explain pollution problem in a rural community. E. Have students write a critical analysis by comparison of problems that affect a city and rural community.

I

ownership must be re-Discipline Area Language Arts stewardship and should upon or violate Subject Critical Writing l right of others. Problem Orientation Pollution Grade 6 OBJECTIVES SUGGESTED LEARNING EXPERIENCES child will Student-Centered in class y and a activity Community Activities 's needs A. Students can write the ontrol Chamber of Commerce in are inter~ cities located on or near people the Fox River. Students Bay, Kaukauna, or unity. can also write a conserchild will vation agent, county leeds for forester, agriculture a city area. ol and agent, to gain informa-

> in particular areas. B. Develop a bulletin board on comparison of city and rural community pollution problems.

tion about pollution

C. Have city planner, water sewafe director, or city sanitary worker visit the class and explain pollution problems within the city.

D. Ask county forester, agent or conservationist to visit class and explain pollution problem in a rural community.

E. Have students write a critical analysis by comparison of problems that affect a city and rural community.

II. Outside Resource and

A. Take a bus trip through a city on the Fox River such as Appleton, Green Kimberly to see the effect of pollution in

B. Take a field trip to a farm area where erosion and pollution have taken

place.

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ıg.

Resource and Reference Materials

Continued and Additional Sugg

Publications:

Newspaper articles
Pamphlets published by Chamber of
Commerce within State of Wisconsin
or Department of Natural Resources,
Conservation, or Forestry

Audio-Visual:

Community:

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ce Materials	Continued and Additional Suggested Learning Experiences	3
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	The control of the co	
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	면 PET 바다 마다 되었다면 보고 있는데 바다 보다 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
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PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

In commenting on each episode used in your class, you may wish to format. Please feel free to adapt it and add more pages. Let us kn comments - negative and positive.

- I. Behavioral Objectives
 A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences
 A. In Class:
 - B. Outside & Community Activities
- IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

ch episode used in your class, you may wish to duplicate this suggested ree to adapt it and add more pages. Let us know all your critiques and d positive.

ives

g Experiences

unity Activities

e & Reference Materials ions & comments)



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Project I - C - E

A SUPPLIMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts GRADE 7

Produced under Title III E.S.E.A. PROJECT I C/E C. Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Robert Robert George



INSTRUCTION - CURRICULUM - ENVIRO

INSTRUCTION - CURRICULUM - ENVIRONMENT

Y PROGRAM FOR ENVIRONMENTAL EDUCATION

A Language Arts ____ GRADE ____ 7

Title III E.S.E.A.

s in CESA's 3-8-9

et consin 54301 Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



- E

PREFACE

If you wish to excite students about their environment, hel of over a hundred teachers, year long meetings, a summer work ecologists, this guide means realistic, developed aid for you which have directed teachers in writing and editing this guid 1. This guide is supplementary in nature and the episodes are

ces--to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know y to adapt, adopt, or use. By design, the range of suggestic mentation and usage are even wider. Many episodes are self others can be changed in part or developed more keenly ove possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learni plan. The reasons are simple. No guide has all the answe unless viewed in the context of your classroom situation. give it a triple reading, check over the resources listed, prime your students, and seek help. The Project personnel knowledgement page stand ready to aid your efforts. Feel f

4. The Project Resource Materials Center serves all CESA 3, 8 private. We will send available materials pre-paid. Call

Phone 432-4338.

Check often the Project ICE Bibliography in your school li Center materials. Please offer suggestions, comments, or

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scr suggestions on the episode pages or use the attached evalu lected in late May next year and will be used in our revis reactions and suggestions -- negative and positive. Please ne in the episodes may refer to specific, local community rescases, individual school districts and teachers will have

stitutes. A list of terms pertinent to the episodes is be 7. Ecologists and other experts have simplified the issue--sur Creation's beauty and complexity -- often noted as the work of and human energy to save. A year's work by a hundred of yo gesture. Without you, their work will crumble, and so migh let us live to think, feel, and act in harmony with our wor

I. Cognitive means a measurable mental skill, ability, or p

2. Affective refers to student attitudes, values, and feeli 3. APWI means Acceptable Performance Will Include (labels a

4. EPA - Environmental Problem Area.

PREFACE

cite students about their environment, help is ready. Thanks to the efforts teachers, year long meetings, a summer workshop, university consultants and side means realistic, developed aid for you. Please note the following ideas d teachers in writing and editing this guide.

upplementary in nature and the episodes are designed -- at appropriate instanto existing, logical course content.

isode offers suggestions. Since you know your students best, you decide what , or use. By design, the range of suggestions is wide; your chances for experisage are even wider. Many episodes are self-contained, others open-ended, still hanged in part or developed more keenly over a few weeks. These built-in

llow you to explore. t you try the episodes and suggested learning experiences but please preons are cample. No guide has all the answers and no curriculum will work n the context of your classroom situation. Thus, before trying an episode, e reading, check over the resources listed, make mental and actual notes, ents, and seek help. The Project personnel and teachers listed on the ack-

age stand ready to aid your efforts. Feel free to ask their help in pre-planning, ource Materials Center serves all CESA 3, 8, and 9 area schools -- public and Il send available materials pre-paid. Call for any help, materials, or to

32-4338.

Project ICE Bibliography in your school library for available Resource s. Please offer suggestions, comments, or advice -- at any time -- so that this

w. Let's help each other.

f with the guide by reacting to it with scratch ideas, notes, and extended the episode pages or use the attached evaluation format, which will be col-May next year and will be used in our revisions. We sincerely want your uggestions -- negative and positive. Please note that some resources listed may refer to specific, local community resources or conditions. In such al school districts and teachers will have to adopt local or available subst of terms pertinent to the episodes is below.

other experts have simplified the issue--survival--yours, mine, our students, ty and complexity--often noted as the work of a genius--will take our genius to save. A year's work by a hundred of your fellow teachers is a saving it you, their work will crumble, and so might we all--literally. Instead,

think, feel, and act in harmony with our world.

Editorial Board ns a measurable mental skill, ability, or process based on factual data.

fers to student attitudes, values, and feelings. ceptable Performance Will Include (labels a cognitive or mental performance.)

mental Problem Area.



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Lowell Baltz, Weyauwega William Behring, Lourdes David Bell, Neenah Marie Below, Clintonville William Bohne, Kimberly Bob Church, Little Chute Ronald Conradt, Shiocton Lee Halberg, Appleton Ronald Hammond, Hortonville Jerome Hennes, Little Chute Barbara Huth, Menasha Darrell Johnson, Hortonville Bernadyne King, Neenah Harold Lindhorst, St. Martin (L) John Little, Winneconne Gordon Rohloff, Oshkosh William Schaff, St. Joseph Doris Stehr, Mt. Calvary (L) Carolyn Shills, New London Sister Dorothy, Xavier Clarence Trentlage, Freedom Mike Hawkins, Xavier Beth Hawkins, Xavier Ed Patschke, Menasha Connie Peterson, St. Martin (L) Dallas Werner, Kaukauna Ron Schreier, Omro

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arinette Ednajean Purcell, OSU UW-Marinette David West, Lawrence U.

Robert Cook, UWGB Dennis Bryan, UWGB C 1. Energy from the sun, the basic source

N of all energy, is converted through

Discipline Area Lar

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E plant photosynthesis into a form all

Subject

T living things can use for life pro-

Problem Orientation

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cesses.

BEHAVIORAL OBJECTIVES

SUGGESTED LEARNI

Cognitive: Given an incomplete food chain, the student, through application of location skills, will be able to place himself as a link in the chain of life, and place the sun as the main energy source.

Affective: Using basic research skills through the use of media, the students will support the "suns' energy cycle."

I. Student-Centered in class activity
A. Class
l. Discuss the food chain of algae to the sun.

2. Use string to build a "web of life" which shows how plants and flowers and bugs and man all need the sun.

Skills to be Learned
Location skills:
Use of card catalogue
Use of the reader's guide
Films-Film loops-Film
strips

rom the sun, the basic source

gy, is converted through

synthesis into a form all gs can use for life pro-AL OBJECTIVES _ven an incomain, the ugh applicaion skills, to place himk in the , and place e main energy sing basic ls through dia, the support ergy cycle." Learned

Discipline Area <u>Language Arts</u>

Subject

Library

Problem Orientation Energy

Grade

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Class

cesses.

- 1. Discuss the food chain of algae to the sun.
- 2. Use string to build a "web of life" which shows how plants and flowers and bugs and man all need the sun.
- II. Outside Resource and Community Activities
 - A. Library
 - 1. Locate books on Ecology showing food chins.
 - 2. Locate the Second law of thermodynamics.
 - 3. Find 3 current articles dealing with destruction of eco-systems.
 - 4. Read articles dealing with the conversion of solar energy.
 - B. Community
 - 1. Field, ecology trips to discover food chains.

ls:

catalogue

oops-Film

eader's guide

Resource and Reference Materials Publications:

Life Magazine, Ecology

Conservation (pamphlet)

Cornell University Press

Audio-Visual:

Community:
County Soil Conservation
Office - Court House
Agriculture Extension Agent



Continued and Additional Suggested Learning Experiences <u>Materials</u> THE STATE OF THE STATE OF AND ASSESSED AND AND ASSESSED. Manager Control of the Control of the

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C 2. All living organisms into	eract among		e e e
N themselves and their environment,		Discipline Area	Language
C E forming an intricate unit car	alled an	Subject	Speaking
T ecosystem.		Problem Orientat	tion <u>Ecos</u>
BEHAVIORAL OBJECTIVES		SUGGESTED LE	
Cognitive: The student will compile a list of ideas through the technique of brainstorming, concerning the question: What ways can man live in harmony with nature in the 20th century?	activit A. Pres techn ideas out"	t-Centered in class y sent to the group to aiques of getting through "throwing ideas quickly and wheeling" to get	the

Skills to be learned Brainstorming List-making

all elements.

Affective: Through tech-

student will suggest that

element in nature affects

the manipulation of one

nique of brainstorming the

"freewheeling" to get ideas on the topic.

B. Form groups of five. Each group with a tape recorder or paper.

- C. From chairman's reports eliminate all lesser important ideas through the use of the tape recorder.
- D. Compile a final list of selected ideas.

ng organisms interact among

and their environment, Area Language Arts Discipli intricate unit called an Subject Speaking - Brainstorming Problem Orientation Ecosystem Grade 7 SUGGESTED LEARNING EXPERIENCES AL OBJECTIVES ne student will I. Student-Centered in class t of ideas activity echnique of A. Present to the group the , concerning techniques of getting What ways can ideas through "throwing out" ideas quickly and armony with 20th century? "freewheeling" to get hrough techideas on the topic. nstorming the B. Form groups of five.

Each group with a tape

C. From chairman's reports eliminate all lesser important ideas through

recorder or paper.

II. Outside Resource and Community Activities

learned

suggest that

ture affects

ion of one

recorder. D. Compile a final list of selected ideas.

the use of the tape

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

PV A

Group Dynamics
A Source Book for Crative Thinking,
Sidney Parnes & H. Harding,
editors; Charles Scribner's Sons,
publisher; New York.

Audio-Visual:

Community:

Materials Continued and Additional Suggested Learning Experiences

Thinking, mer's Sons,

C 3. Environmental factors are limiting
O

N on the numbers of organisms living
C
E within their influence, thus, each
P

Subject

T environment has a carrying capacity.

Problem Orientation

BEHAVIORAL OBJECTIVES

Cognitive: When a list of man's needs are established, the student will show by class discussion evidence of man's possible over-use and mis-use of these needs.

Affective: Attempting to locate a delicate line between what man needs, and what he thinks he needs, the student will submit what he thinks are apparent discrepancies in these needs.

Skills to be Learned
Research skills
Group communication
Critical analysis
Speaking activities
Brainstorming in small
groups

SUGGESTED LEARI I. Student-Centered in class

- activity
 1. Develop with the students
 through individual research and compilations
- a list of man's basic needs
 2. Taking the list of basic needs (unique in your class begin a critical analysis of each, as to its degree as a need and its actual degree of use. (Is it being mis-used, over-used, etc?)
- 3. Form debate teams either formal or informal. Allow students to form lines along that which they believe as much as possible. One team defending a given need itself, perhaps, or its use or misuse.

mental factors a	re limiting			•		
bers of organism	s living	Discipline Area	Language Arts			
ir influence, th	us, each	Subject	Debate			
t has a carrying	capacity.	Problem Orientation	Carry Capacity Grad	.e <u>7</u>		
RAL OBJECTIVES		SUGGESTED LEARNING EXPERIENCES				
When a list of are established, will show by	activity	-Centered in class	II. Outside Resour Community Activ			
sion evidence sible over- use of these	through search a list	o with the students individual re- and compilations of man's basic needs		• .		
Attempting to icate line man needs, thinks he tudent will ne thinks discre-nese needs.	needs () begin a of each as a nee degree of mis-used 3. Form de	the list of basic unique in your class critical analysis, as to its degree ed and its actual of use. (Is it being d, over-used, etc?) ebate teams either or informal. Allow		•		
Learned lls nication nlysis rivities	students along th lieve as One team need its	s to form lines nat which they be- s much as possible. n defending a given self, perhaps, or or misuse.				
o in small						

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Resource and Reference Materials

Continued and Additional Suggested

Publications:

Books:

Science encyclopedias
textbooks
Patterns of Living, Lyons
and Carnahan
Discussion & Debate, National
Textbook Co.
Speaking By Doing, National
Textbook Co.

Audio-Visual:

Community:

Materials Continued and Additional Suggested Learning Experiences ational ional Principal of the Control of the Control And the second of the second o

4. An adequate supply of pure wa er Discipline Are is essential for life. Subject Problem Orient BEHAVIORAL OBJECTIVES SUGGESTED LEAD Cognitive: After viewing the film "The Gifts", field trip and personal activities, stu-Student-Centered in class activity 1. After viewing the fi "The Gifts", students will react orally by dents will discuss the various types of water pollution. Affective: Since an adequate expressing the feeling supply of pure water is essential to life, hopefully the that well up as a resi of the film. students will argue that 2. They will discuss a water pollution is a serious become aware of ways problem: that they pollute dire ly or indirectly. Skills to be Learned Discussion Observation

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AVIORAL OBJECTIVES
e: After viewing the class of water pollution.
e: Since an adequate f pure water is essenlife, hopefully the will argue that llution is a serious

Discipline Area

Language Arts

Subject

Discussion

Problem Orientation E.P.A. Water Grade 7

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - 1. After viewing the film "The Gifts", students will react orally by expressing the feelings that well up as a result of the film.
 - 2. They will discuss and become aware of ways that they pollute directly or indirectly.

- II. Outside Resource and Community Activities
 - 1. Students will visit and observe local pollution areas and prepare to discuss their findings in class.

o be Learned

ion tion

Resource and Reference Materials

Continued and Additional Suggest

Publications:
Lord Jim by Joseph Conrad
(Excerpts read by the teacher)

Audio-Visual: Film: "The Gifts"

Project I-C-E Resource Center 1927 Main Street

Green Day, WI 54301

U.S. Department of Interior Federal Water Quality Assn. Office of Public Instruction

Community: Field Trip

ce Materials

Continued and Additional Suggested Learning Experiences

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rce Center

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Interior ty Assn. struction



C 5. An adequate supply of clean air is

N essential because most organisms depend
C on respiration to supply the oxygen
P needed to release the energy in their food.

Problem Orientation

BEHAVIORAL OBJECTIVES

Cognitive: Through critical reading the student will be able to distinguish between fact vs. opinion or adequate air supply through newspaper articles and labeling these articles as factual or opinionated.

Affective: The student submits that critical reading is a method which demonstrates that all material read in newspapers is not factual but in many cases, is the opinion of an individual which is mostly prejudiced in one form or other.

Skills to be Learned
Distinguish factual material
on air pollution from a
writer's opinion.

Effective critical reading is analyzing and categor-izing material.

SUGGESTED LEARNING
-Centered in

 Student-Centered in class activity
 Bring to class enough

1. Bring to class enough local newspapers that each student will have two to read and look for appropriate articles.

- 2. Teacher will xerox several articles that demonstrate opinion and articles that demonstrate fact to develop student's awareness of the differences that are existent.
- 3. After reading articles on air pollution, each student will write a paragraph expressing his opinion of air pollution. as it exists in his community.
- 4. Students will then research factual material on air pollution and write a paragraph that is based on pure facts.
- 5. Class discussion held on which type paragraph students found most difficult to write and why. Each student will---

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Discipline Area ___ Lanugage Arts

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Criterial Reading-Writing

Problem Orientation E.P.A. Air Grade 7

Student-Centered in class activity

1. Bring to class enough local newspapers that each student will have two to read and look for appropriate articles.

- 2. Teacher will xerox several articles that demonstrate opinion and articles that demonstrate fact to develop student's awareness of the differences that are existent.
- 3. After reading articles on air pollution, each student will write a paragraph expressing his opinion of air pollution. as it exists in his community.
- 4. Students will then research factual material on air pollution and write a paragraph that is based on pure facts.
- 5. Class discussion held on which type paragraph students found most difficult to write and why. Each student will--- (cont.)

SUGGESTED LEARNING EXPERIENCES Outside Resource and II. Community Activities

- Have a newspaper reporter or editor speak to the class on writing editorials (which are that editor's opinion).
- 2. As a presentation for the factual side, have a teacher in the field of science present facts on air pollution.

Resource and Reference Materials
Publications:
Newspaper articles

Continued and Additional Suggeste

I. (cont.)
read orally both of his paragr
of the class to share opinions

Audio-Visual:

Community:
Have newspaper writer
or editor visit class.

erials

Continued and Additional Suggested Learning Experiences.

I. (cont.)
read orally both of his paragraphs which will enable all
of the class to share opinions and facts on air pollution.



6. Natural resources are not equally N distributed over the earth or over Discipline Area E time and greatly affect the geographic Subject Problem Orientation T conditions and quality of life. BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EX Cognitive: After a buzz Student-Centered in class II. session, students will activity formulate conclusions on 1. Students will read the the issue that 6 environstory "Walden's Pond" by mental changes made by man Thoreau; then randomly plade may damage plants and children in groups of 3 or animals & upset the ecolo-4 & have them "buzz" for gical balance. about 10 minutes about the Affective: The student things Thoreau enjoyed should promote the beauty during his visit to Walden of a pond and a sense of Pond. Instruct each group responsibility for its to formulate & write down nreservation. statements made -- accept all statements. Have a mas-Skills to be Learned ter list of the children's Discussion statements typed & distri-Buzzing bute copies to the class the following day. The ini tial statements are discussed, refined, reworded, retyped & copies are given to group members to help them formulate ideas for another buzz session. The students could follow the same procedure to answer the question, "What would happen to the plant & animal life of the engineers planning a new highway decide to drain

Walden Pond?" At the end

(Cont.)

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sense of

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SUGGESTED LEARNING EXPERIENCES

Student-Centered in class activity

1. Students will read the story "Walden's Pond" by Thoreau; then randomly plade children in groups of 3 or 4 & have them "buzz" for about 10 minutes about the things Thoreau enjoyed during his visit to Walden Pond. Instruct each group to formulate & write down statements made -- accept all statements. Have a master list of the children's statements typed & distribute copies to the class the following day. The initial statements are discussed, refined, reworded. retyped & copies are given to group members to help

Outside Resource and II. Community Activities 1. Students visit a local

pond individually or in a group, depending on the area.

rned

another buzz session. The students could follow the same procedure to answer the question, "What would happen to the plant & animal life of the engineers planning a new highway decide to drain Walden Pond?" At the end (Cont.)

them formulate ideas for

Resource and Reference Materials

Continued and Additional Suggester

Publications:

Wide, Wide World of Literature,
"The Loon" by Henry David Thoreau

T. (Cont.) of the buzz session, each group conclusions.

Audio-Visual:

Film:

World in a Marsh, Consulate General of Canada Film Library, 310 S. Michigan Avenue, Chicago, Ill. 60604

Community:

High school biology teacher (could talk to the class about life in a pond.)

Materials

Continued and Additional Suggested Learning Experiences

erature, vid Thoreau I. (Cont.)
of the buzz session, each group will report its
conclusions.

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C 7. Factors such as facilitating transportation,

N economic conditions, population growth, Discipline Area

E and increased leisure time have a great Subject

T influence on changes in land use and Problem Orientaticenters of population density.

BEHAVIORAL OBJECTIVES

SUGGESTED LEA

Cognitive: After being involved in various sized groups, the student will choose the one size which has the best "lines" of communication.

Affective: Students will evaluate the fact that population size affects communication.

Skills to be Learned
Speaking
Group discussion
Panel discussion
Problem Solving

I. Student-Centered in class activity

A. The teacher divides the into 2 groups & gives them problem to discuss. After cussing for 5 minutes, div the class into 3 groups to discuss another issue. The will be a third regrouping 5 groups & a final grouping 10 groups, each of the 4 g will have a different top discussion. One person fro of the final groupings wil chosen as a panelist. This of 10 will discuss how the of the group affects commu Examples of topics: Should a candy machine in our sch Should we have students mo the halls? What should we students who misbehave? Wh we have recess?

Note: Illustration of ground on next page.

s such as facilitating transportation,

conditions, population growth, Discipline Area Language Arts

ased leisure time have a great Subject

Discussion

on changes in land use and

Problem Orientation Population

Grade 7

f population density.

After being

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student will one size which

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DRAL OBJECTIVES

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class

activity

A. The teacher divides the class into 2 groups & gives them a problem to discuss. After discussing for 5 minutes, divide the class into 3 groups to discuss another issue. There will be a third regrouping of 5 groups & a final grouping of 10 groups, each of the 4 groupins will have a different topic for discussion. One person from each of the final groupings will be chosen as a panelist. This panel of 10 will discuss how the size of the group affects communication. Examples of topics: Should we have a candy machine in our school? Should we have students monitor the halls? What should we do with students who misbehave? Why don't we have recess?

Note: Illustration of groupings on next page.

II. Outside Resource and Community Activities

Continued and Additional Suggested I I. Illustration of groupings: Resource and Reference Materials Publications: Speaking by Doing, National Textbook Co. Audio-Visual: Community: PANEL (One student from each of the f

cerials Continued and Additional Suggested Learning Experiences
I. Illustration of groupings:

PANEL

(One student from each of the final groupings)



8. Cultural, economic, social, and N political factors determine status Discipline Are of man's values and attitudes Subject \mathbf{E} Problem Orient toward his environment. SUGGESTED BEHAVIORAL OBJECTIVES I. Student-Centered in cla Cognitive: Through a dialog narration, the activity students will creatively A. Class 1. Read the story, Li write how the cultures in the Forest by Co of the white man & Indian creates different values & attitude toward Richter. 2. Discuss True Son's attitude toward the their environment. man's civilization. Affective: The students will support the fact are his attitudes a that different cultures adopted Indian diff from his brother Go will produce different values & attitudes. attitudes? 3. Write a dialog nar such as True Son & Skills to be Learned Writing narration in might have about th dialog form choices in the way life.

economic, social, and al factors determine status

Discipline Area <u>Language Arts</u>

values and attitudes

Subject

Reading-narrative writing

is environment.

Problem Orientation Attitudes

Grade 7

IORAL OBJECTIVES Through a ration, the ill creatively the cultures te man & eates different ttitude toward ronment. The students

ort the fact erent cultures ice different attitudes.

be Learned arration in orm

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

A. Class

- 1. Read the story, Light in the Forest by Conrad Richter.
- 2. Discuss True Son's attitude toward the white man's civilization. How are his attitudes as an adopted Indian different from his brother Gordy's attitudes?
- 3. Write a dialog narration such as True Son & Gordy might have about their choices in the way of life.

II. Outside Resource and Community Activities

Resource and Reference Materials Publications:

Continued and Additional Sugges

Wisconsin Historical Society, Articles on Indians, Wisconsin History

Audio-Visual: Film:

The Light in the Forest

Community:

e Materials Ociety, Nisconsin Continued and Additional Suggested Learning Experiences

ERIC Full Text Provided by ERIC

C 9. Man has the ability to manage, Discipline Area N manipulate, and change his Subject E environment. P Problem Orientati SUGGESTED LEA BEHAVIORAL OBJECTIVES I. Student-Centered in class Cognitive: The students activity will be able to analyze A. Classroom information obtained from 1. Students can write to two states & compare & Chamber of Commerces i contrast pollution control different cities of efforts in the form of a Wyoming to find out wh mobile or collage. pollution control effo Affective: After writing are being undertaken i to various cities in Wyoming & Wisconsin, the various cities in the state. (Wyoming chosen

Skills to be Learned Comparing Contrasting Letter writing

student will specify the

effects of population

& industry on the

environment.

lation contrast.) 2. Do the same in home of & cities in Wisconsin.

because of great popu-

3. Hold an "open group discussion" to share i and compare problems d to population size & industry.

4. Construct collage mobiles expressing a comparison & contrast of the two states effe and problems.

ne ability to manage, Discipline Area Language Arts ind change his Subject Letter Writing Problem Orientation Pollution Grade 7 OBJECTIVES SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class II. Outside Resource and students activity analyze Community Activities ained from A. Classroom mpare & 1. Students can write to ion control Chamber of Commerces in form of a different cities of ge. Wyoming to find out what er writing pollution control efforts es in are being undertaken in nsin, the various cities in the ecify the state. (Wyoming chosen .lation because of great popuhe lation contrast.) 2. Do the same in home city & cities in Wisconsin. 3. Hold an "open group arned discussion" to share ideas and compare problems due to population size & industry. 4. Construct collage mobiles expressing a comparison & contrast of the two states efforts and problems.

Resource and Reference Materials Publications:

Continued and Additional Suggested

Audio-Visual: Old magazines

Community:
Art teachers
Chamber of Co

Chamber of Commerce State Historical Society

ERIC

terials Continued and Additional Suggested Learning Experiences

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	C 10. Short-term economic gas O N produce long-term environm C E losses. P		Discipline Area Subject Problem Orientat	Critica
ESEA Title III - 59-70-0135-1 Project I-C-E	BEHAVIORAL OBJECTIVES Cognitive: Students will participate in class discussion & view a movie to help them write a description of how an action for short-term economic gain can produce long-term environmental loss. Affective: Students will promote concern for avoiding such exploitation of our resources. Skills to be Learned Critical thinking Observation Note taking Critical writing	activity A. Class 1. Cl mes exp res lor 2. St the in und 3. Wh stu sho los 4. Es des ter lon 5. Di mov	SUGGESTED LE t-Centered in class y	EARNING EX ne ne al mples rd of each es of ng-term ite a crt- coduce viewing revious

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economic gains may	-				i '
rm environmental	Discipline Area	Language	Arts		
	Subject	Critical	Writing		
	Problem Orientat	Natur ion <u>Reso</u> u	ral irces	Grade	7
BJECTIVES	SUGGESTED LE	ARNING EXP	ERIENCES		
nts will I. Studen ass activit	t-Centered in class		. Outside	Resourc	
a movie A. Clas		`. `		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1	lass will discuss th	e e			-
	aning of short-term	_			
	ploitation of natura	1			
	sources & resulting			•	
	ng-term losses. Students tell of exam	n100			
	ey have seen or hear		·		•
	order to reinforce	u 01			
	derstanding.				
	hile viewing movies,	each			
	udent will make note				
ned sh	ort-term gains & lon	g-term			
	sses.	_	· v		
	ach student will wri				
	scription of how sho				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	rm economic gains pr				
	ng-term losses in mo				
	iscussion prior to v vies will draw on pro				
	periences of student				
	per renices or soudent				
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Resource and Reference Materials Publications:

Continued and Additional Sugges

Audio-Visual:

Movie, Teamwork on the Potomac, shows the environmental losses produced by pollution & degrading of the Potomac River.

Interstate Commission on the Potomac River, 407 Global Bldg.

1025 Vermont Ave., NW, Washington, D.C. 20005

Any other movie may be used which shows long-term loss resulting from short-term exploitation.

Community:

aterials

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River. the 1 Bldg.

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Continued and Additional Suggested Learning Experiences

	C 11. Individual acts, duplicated					
	N or compounded, produce sign	nificant Discipline A-a Langu				
	E environmental alterations of P					
.	T	Problem Orientation E.				
+	BEHAVIORAL OBJECTIVES	SUGGESTED LEARNING				
Ì	Cognitive Through creative	I. Student-Centered in class				
	writing, the student will be	activity				
뀌	able to show by specific	A. Discuss with class the				
쉬	example the concept of cause,	kinds of activities man				
4	effect, and time.	is engaged in that may.				
- 1	Affective: The students will	over a period of time,				
lçt Ç	suggest other examples in	create problems with the				
9	their reading of man's	environment.				
roj	activities that have changed the environment.	B. Discuss what values				
4	the environment.	caused these actions of				
	Skills to be Learned	man.				
- 	Creative writing	1. Man vs. DDT				
	Creative thinking	2. Population explosion				
7	Creative solutions	J. Taking one of man's				
5	Grammar	activities, project poss-				
5	Reading for information	ible consequences in the future. (These writings				
ĭ	1	should be based on some				
	:	degree of authenticity).				
.]		D. Give a cause (industry)				
	ma = Mins	plus time (100 years),				
11		and discuss what could				
4l	į	MING MEDORDO MINGO CONTR				

ERIC

be the effect on the

E. Writings done could be

in the form of journals, documentaries, editorials, satire, and so on.

E environment.

acts.	สมทา	licated
accos.	uuvi	rancan

produce significant

Discipline & a Language Arts

alterations over time.

Subject

English

Problem Orientation E. Alterations Grade 7

BJECTIVES creative

lent will be specific

pt of cause, udents will

mples in man's ave changed

ned

mation

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Discuss with class the kinds of activities man is engaged in that may, over a period of time, create problems with the environment.
 - B. Discuss what values caused these actions of man.
 - 1. Man vs. DDT
 - 2. Population explosion
 - C. Taking one of man's activities, project possible consequences in the future. (These writings should be based on some degree of authenticity).
- D. Give a cause (industry) plus time (100 years), and discuss what could be the effect on the
- E environment.
- E. Writings done could be in the form of journals, documentaries, editoriais. satire, and so on.

II. Outside Resource and Community Activities

Resource and Reference Materials Continued and Additional Substitutions:

Short stories about, or excerpts from lives of great industrialists, etc.

Biographies

Encyclopedias

Industrialists:
Henry Ford
Horard Hughes
John Deere

Audio-Visual:

Community:

e Materials Continued and Additional Suggested Learning Experience excerpts dustrialists,



12. Private ownership must be re-0 garded as a stewardship and should N not encrouch upon or violate the individual right of others BEHAVIORAL OBJECTIVES Cognitive: After writing to various cities in Wyoming activity and Wisconsin, the student through making a collage or mobile will show the effects of population and industry on environment. The student Affective: will analyze information obtained from two states and compare and contrast pollution control efforts. Skills to be Learned Comparing and contrasting Letter writing Interviewing

Discipline Area Language Ar

Subject

Letter Writ

Problem Orientation

Pollut

SUGGESTED LEARNING EXPER I. Student-Centered in class

II. Outs Commu

- 1. Students can write to Chamber of Commerce in Wyoming cities to find out what pollution control efforts are being undertaken in various cities in the state. (Wyoming chosen because of great population contrast)
- 2. Do the same in home city and cities in Wisconsin.
- 3. Hold an open group discussion to share ideas and compare problems due to population size and industry.
- 4. Construct collage, mobiles expressing a comparison and contrast of the two states efforts and problems.

ownership must be restewardship and should

upon or violate

al right of others

Discipline Area Language Arts

Letter Writing

Problem Orientation Pollution Grade

e writing to In Wyoming the

making a le will of popu-try on

student ormation o states contrast l efforts.

rned itrasting I. Student-Centered in class | II. Outside Reactivity

1. Students can write to Chamber of Commerce in Wyoming cities to find out what pollution control efforts are being undertaken in various cities in the state. (Wyoming chosen because of great population contrast,

2. Do the same in home city and cities in Wisconsin.

3. Hold an open group discussion to share ideas and compare problems due to population size and industry.

4. Construct collage, mobiles expressing a comparison and contrast of the two states efforts and problems.

II. Outside Resource and Community Activities

Resource and Reference Materials
Publications:
State Historical Society

Continued and Additional Sug

Audio-Visual:

Community:
Art teachers
Chambers of Commerce

ence Materials

Continued and Additional Suggested Learning Experiences

eiety



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

In commenting on each episode used in your class, you may wish format. Please feel free to adapt it and add more pages. Let us comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
- " B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences
 A. In Class:
 - B. Outside & Community Activities
- IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

on each episode used in your class, you may wish to duplicate this suggested el free to adapt it and add more pages. Let us know all your critiques and e and positive.

jectives

ped

rning Experiences

Community Activities

ource & Reference Materials (estions & comments)



ED055919

Project I - C - E

A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts GRADE 8

Produced under Title III E.S.E.A. PROJECT I-C-E
Serving Schools in CESA's 3-8-9
1927 Main Street
Green Bay, Wisconsin 54301
(414) 432-4338

Robert Warp Robert Kell George Howl

INSTRUCTION - CURRICULUM - ENVIRONMEN

INSTRUCTION - CURRICULUM - ENVIRONMENT

OR ENVIRONMENTAL EDUCATION

Arts GRADE 8

E.S.E.A.

3-8-9

301

Kobert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



PREFACE

If you wish to excite students about their environment, help is of over a hundred teachers, year long meetings, a summer workshop ecologists, this guide means realistic, developed aid for you. Ewhich have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are des

ces--to plug into existing, logical course content.

 Each page or episode offers suggestions. Since you know your to adapt, adopt, or use. By design, the range of suggestions i mentation and usage are even wider. Many episodes are self-cor others can be changed in part or developed more keenly over a

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning epian. The reasons are simple. No guide has all the answers a unless viewed in the context of your classroom situation. The give it a triple reading, check over the resources listed, make prime your students, and seek help. The Project personnel and knowledgement page stand ready to aid your efforts. Feel free

4. The Project Resource Materials Center serves all CESA 3, 8, ar private. We will send available materials pre-paid. Call for

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school librar Center materials. Please offer suggestions, comments, or advi

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch suggestions on the episode pages or use the attached evaluation lected in late May next year and will be used in our revisions reactions and suggestions—negative and positive. Please note in the episodes may refer to specific, local community resource cases, individual school districts and teachers will have to a stirutes.

7. Ecologists and other experts have simplified the issue--surviv Creation's beauty and complexity--often noted as the work of a and human energy to save. A year's work by a hundred of your gesture. Without you, their work will crumble, and so might w let us live to think, feel, and act in harmony with our world.

T. Cognitive means a measurable mental skill, ability, or proceed the state of the skill of the

2. Affective refers to student attitudes, values, and feelings 3. APWI means Acceptable Performance Will Include (labels a co.

4. EPA - Environmental Problem Area.



PREFACE

cite students about their environment, help is ready. Thanks to the efforts eachers, year long meetings, a summer workshop, university consultants and ide means realistic, developed aid for you. Please note the following ideas teachers in writing and editing this guide.

pplementary in nature and the episodes are designed -- at appropriate instan-

o existing, logical course content.

sode offers suggestions. Since you know your students best, you decide what or use. By design, the range of suggestions is wide; your chances for experiage are even wider. Many episodes are self-contained, others open-ended, still anged in part or developed more keenly over a few weeks. These built-in low you to explore.

you try the episodes and suggested learning experiences but please prens are simple. No guide has all the answers and no curriculum will work the context of your classroom situation. Thus, before trying an episode, reading, check over the resources listed, make mental and actual notes, nts, and seek help. The Project personnel and teachers listed on the ackge stand ready to aid your efforts. Feel free to ask their help in pre-planning, urce Materials Center serves all CESA 3, 8, and 9 area schools--public and l send available materials pre-paid. Call for any help, materials, or to 2-4338.

Project ICE Bibliography in your school library for available Resource . Please offer suggestions, comments, or advice--at any time--so that this

. Let's help each other.

with the guide by reacting to it with scratch ideas, notes, and extended he episode pages or use the attached evaluation format, which will be colary next year and will be used in our revisions. We sincerely want your ggestions—negative and positive. Please note that some resources listed may refer to specific, local community resources or conditions. In such school districts and teachers will have to adopt local or available substof terms pertinent to the episodes is below.

ther experts have simplified the issue--survival--yours, mine, our students, y and complexity--often noted as the work of a genius--will take our genius to save. A year's work by a hundred of your fellow teachers is a saving you, their work will crumble, and so might we all--literally. Instead,

nink, feel, and act in harmony with our world.

Editorial Board is a measurable mental skill, ability, or process based on factual data. ers to student attitudes, values, and feelings. ceptable Performance Will Include (labels a cognitive or mental performance.) mental Problem Area.



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CESA #3 Eugene Anderson, Peshtigo Laura Berken, Oconto Falls Willard Collins, Crivitz . John Cowling, Niagara Nicholas Dal Santo, Pembine Robert Dickinson, Oconto Ann Fuhrmann, Marinette Lillian Goddard, Coleman William Harper, Lena Robert Herz, St. James (L) Ester Kaatz, Wausaukee Michael Kersten, Suring Douglas Koch, Cath. Central Donald Marsh, Bonduel David Miskulin, Goodman Don Olsen, Shawano Elmer Schabo, Niagara Marion Wagner, Gillett Ruth Ward, Crivitz George Kreiling, Marinette Marg. McCambridge, White Lake Virginia Pomusl, White Lake Gailen Braun, Lena Kay DePuydt, Gillett Lousene Benter, Gillett

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The following teachers and consultants participated in the development ENTS: of the Supplementary Environmental Education Guide:

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#3 rson, Peshtigo n, Oconto Falls lins, Crivitz g, Niagara 1 Santo, Pembine inson, Oconto n, Marinette dard, Coleman per, Lena , St. James (L) , Wausaukee sten, Suring h, Cath. Central h, Bonduel lin, Goodman Shawano o, Niagara er, Gillett Crivitz ling, Marinette bridge, White Lake nusl, White Lake ı, Lena , Gillett ter, Gillett

Lowell Baltz, Weyauwega William Behring, Lourdes David Bell, Neenah Marie Below, Clintonville William Bohne, Kimberly Bob Church, Little Chute Ronald Conradt, Shiocton Lee Halberg, Appleton Ronald Hammond, Hortonville Jerome Hennes, Little Chute Barbara Futh, Menasha Darrell Johnson, Hortonville Bernadyne King, Neenah Harold Lindhorst, St.Mar John Little, Winneconne Gordon Rohloff, Oshkosh William Schaff, St. Jose .. Doris Stehr, Mt. Calvary (L) Carolyn Shills, New Lone a Sister Dorothy, Xavier Clarence Trentlage, Freedom Mike Hawkins, Xavier Beth Hawkins, Xavier Ed Patschke, Menasha Connie Peterson, St. Martin (L) Dallas Werner, Kaukauna Ron Schreier, Omro

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> Robert Cook, UWGB Dennis Bryan, UWGB

UW-Marinette

itaff

Energy from the sun, the basic source N of all energy, is converted through Discipline Area E photosynthesis into a form all Subject living things can use for life pro-Problem Orienta (1)cesses. BEHAVIORAL OBJECTIVES SUGGESTED I I. Student-Centered in class Cognitive: Through the use of antonyms and the shades activity of meaning between, the Diamante-a kind of poem i student will reinforce the the shape of a diamond. concept of life's depennoun dence on the sun. Also adj. adj. contribute to the development of vocabulary & knownoun noun noun ledge of parts of speech. Affective: The student adj. adj. will support the idea

Skills to be Learned
Word selection
Crganization
Contrast
Students working
together

that words are related

from one extreme to the

such as life to death.

through shades of meaning

opposite extreme (antonym)

participle part. part. noun participle part. part. noun (Center four nouns related to both antonyms) Example life green bright shining growing blooming heat motion food sun fading slowing dimming brown old death

un, the basic source

Discipline Area Language Arts converted through to a form all Subject Written Expression-Grammar Problem Orientation Energy use Grade use for life processes. (1) ECTIVES SUGGESTED LEARNING EXPERIENCES 1. Student-Centered in class the use II. Outside Resource and activity shades Community Activities Diamante-a kind of poem in the the shape of a diamond. rce the epennoun lso adj. adj. evelopparticiple part. part. & knownoun noun noun noun peech. participle part. part. dent adj. adj. ea noun ted (Center four nouns related eaning to both antonyms) the Example ntonym) life th. green bright shining growing blooming heat motion sun fading slowing dimming brown old death

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Resource and Reference Materials
Publications:
Books:

Continued and Additional Sugges

Thesaurus
Dictionary
Text books

Audio-Visual:

Community:

Materials Continued and Additional Suggested Learning Experi∋nces



C 2. All living organisms interact among

N themselves and their environment,

Discipline Area

forming an intricate unit called

Subject

T an ecosystem.

Problem Orientatio

SUGGESTED LEAR

BEHAVIORAL OBJECTIVES

Students will Cognitive: reinforce their concepts of environment by searching for words related to environment. They will expand word recognition and vocabulary at the same time by making a puzzle to be solved by another student. Affective: The student will submit words concerned with ecology which will broaden the concept of ecology and increase concern for the ecosystem.

Skills to be Learned
Use of dictionary
Reference
Reading
Spelling
Roget's Thesaurus

35-

0-01

SEA

I. Student-Centered in class activity

1. Prepare a word list concerned with ecology or som sub-division of it. Scramble the letters of these words to make a puzzle, as illustrated below. Each student contributes one or more puzzles to be solv by other students.

WORD LIST

<u>Trees - lake - soil - rair</u> <u>wildlife - grass - air - s</u>

wirairtenlrof
tiselerfgrass
illdesernoui
eoudabtreesor
xrimlnyzofbso
lkousipreingl
dlefghfingiin
jilolakexpors
ograinswrsun



ving organisms interact among

		_					
s and their envir	onment,	Discip	line Ar	ea	Language	Arts	
n intricate unit	called	Subjec	t	3	Language	Arts	
tem.		Proble	m Orier	ntation	n Ecosyste	mGrade	8
			مع ویکستانجید اور می می می می می می				·
ORAL OBJECTIVES		SU	GGESTEI	<u>LEARI</u>	VING EXPERI		
Students will heir concepts ent by searching elated to environ will expand word and vocabusame time by zzle to be nother student. The student words conecology which in the concept and increase the ecoe	activi 1. Pre- cerr sub- ble word illustud or r by d	dent-Center ity epare a work ned with eco- division of the letter is to make astrated be dent contri more puzzle other stude LIST es - lake - dlife - gra	d list clogy of it. S s of th a puzzl clow. Ea butes of ents.	con- or some cram- nese e, as one e solve	Commu	ide Resourc nity Activi	
e Learned tionary esaurus	w : t : e c x : d : j :	irairt iseler lldese udabt rimlny kousir befghf ilolal	enl fgr ree zof orei fing	r o f a s s u i u s o n b s c n g l i m o r s		:	

ERIC*

Resource and Reference Materials

Publications:

Newspaper articles

Pamphlets & bulletins on ecology

Stories

Books

Magazines

National Wildlife

Outdoor Life

Field & Stream

Audio-Visual:

Filmstrips (any on environment)

Commu

ERIC*

Continued and Additional Suggested Learning Experiences rials logy

245

3. Environmental factors are limiting N on the numbers of organisms living

Discipline Area Langua;

E within their influence, thus, each

Subject

Readin.

T environment has a carrying capacity.

Problem Orientation Ca-

BEHAVIORAL OBJECTIVES Cognitive: After reading the novel, the student will list in logical order the steps necessary to establish a wildlife sanctuary. Affective: The student will specify that the carrying capacity of an area is determined by certain ecological factors. The

Skills to be Learned Arrange facts in a special order Research the life cycle of the Canadian goose Compare and contrast through various media

book or movie illustrates

these factors.

SUGGESTED LEARNING I. Student-Centered in class activity

A. Class oriented activity

1. Read Paul Annixter's Swiftwater.

2. List the steps in their proper order, the Calloways used to realize the dream of a lifetime of establishing a sanctuary for wild geese which pass over the Maine Woods twice each year.

? Compare the book, iftwater, with the Disney movie from the book, Those Calloways.

onmental factors are limiting

umbers of organisms living heir influence, thus, each ent has a carrying capacity. IORAL OBJECTIVES After reading the student will gical order the ssary to establish sanctuary. The student will at the carrying f an area is by certain factors. The vie illustrates ors. be Learned acts in a special the life cycle of

Discipline Area Language Arts

Subject

Reading

Carrying

Problem Orientation Capacity

Grade

- SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity
 - A. Class oriented activity
 - 1. Read Paul Annixter's Swiftwater.
 - 2. List the steps in their proper order, the Calloways used to rellize the dream of a lifet le of establishing a sanctuary for wild geese which pass over the Maine Woods twice each year.
 - 3. Compare the book, Swiftwater, with the Disney movie from the book, Those Calloways.

- II. Outside Resource and Community Accivities A. Out of class
 - 1. Research the flyway sanctuaries of Wis. Then develop a plan in well-formed paragraphs that will further the species of the Canadlan goose.

dian goose nd contrast various media Resource and Reference Materials

Continued and Additional S

Publications:
Books:

Swiftwater, Paul Annixter National Wildlife, Ranger Rick's

Audio-Visual:

Community:

ence Materials | Continued and Additional Suggested Learning Experiences

nixter Ranger Rick's

ERIC

4. An adequate supply of pure water Discipline Area is essential for life. Subject Problem Orientation E.H SUGGESTED LEARNING EXP BEHAVIORAL OBJECTIVES Cognitive: Through an out-Student-Centered in II. Time the student will evalclass activity uate the effects of various 1. Read Henry Wadsworth forms of water pollution on Longfellow's Evangeline, man's environment in differ-Parts II and III. ent periods of history. 2. Develop a list of Affective: The student will phrases that depict the challenge or defend the author's description of statement that the pollution the undisturbed waterway of man's environment inof the Mississippi River creased in proportion to the of the 18th century. development of civilization 59-70-0135-1 3. In outline form, evaluat reast four S1=1.1 villains of our water e Learned ricking out descriptive supply and their possible solutions. phrases Observe and organize Cutlining

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quate supply of pure water lal for life.

Discipline Area Language Arts

Subject

Evaluation

Problem Orientation E.P.A. Water

Grade 8

RAL OBJECTIVES ough an outdent will evalects of various er pollution on ment in differof history. ne student will defend the at the pollution ironment inportion to the civilization

Learned descriptive

organize

SUGGESTED LEARNING EXPERIENCES

I. Student-Centered in class activity

1. Read Henry Wadsworth Longfellow's Evangeline, Parts II and III.

- 2. Develop a list of phrases that depict the author's description of the undisturbed waterway of the Mississippi River of the 18th century.
- 3. In outline form, evaluate at least four villains of our water supply and their possible solutions.

- II. Outside Resource and Community Activities
 - 1. Observe a stream or river of the community for effects of water pollution ard reanize findings.
 - 2. Collect samples from local stream-bring to class-write descriptions of each sample after close observation touching, smelling, etc.

Continued and Additional Sug

Resource and Reference Materials

Publications:

"Evangeline" by Henry Wadsworth
Longfellow
Excerpts from Walden Bond
Excerpts from "The Sea Around Us"
R. Carson - (parts on water's origin)

Audio-Visual:

Community:

Materials

Continued and Additional Suggested Learning Experiences

Wadsworth

ond Around Us" water's



C An adequate supply of clean air is Discipline Are N essential because most organisms de-Subject E pend on respiration to supply the P oxygen needed to release the energy Problem Orient T in their food. (#5) BEHAVIORAL OBJECTIVES Cognitive: After reading the novel, the student will identify forms of air poliution in the 19th and 20th centuries through an informative article written to summarize these Affective: Using the novel, A Christmas Carol, the student will attempt to contrast air pollution of that time with the present.

SUGGESTED I. Student-Centered i class activity 1. Read Dickens' A Christmas Carol "Marley's Ghost" 2. Identify the var

sources of air poll of London to the 20 century air polluti of our area.

-0135-1

Skills to be Learned

Write an article.

Ability to identify facts.

Compare and contrast data.



e supply of clean air is

Discipline Area Language Arts because most organisms despiration to supply the Subject Written Expression ded to release the energy Problem Orientation E.P.A. Air Grade iood. (#5) GRAL OBJECTIVES SUGGESTED LEARNING EXPERIENCES fter reading the I. Student-Centered in II. Outside Rescurce and student will identiclass activity Community Activities air poliution in 1. Read Dickens' A 1. Observe the presence 1 20th centuries Christmas Carol of air pollution by the senses of sight and "Marley's Ghost" informative article 2. Identify the various smell in our locality. summarize these sources of air pollution 2. Collect photographs Jsing the novel, of London to the 20th of local and national Carol, the stucentury air pollution pollution. tempt to contrast of our area. on of that time esent. e Learned identify facts. l contrast data. ticle.

Resource and Reference Materials Continued and Additional S

Publications:
Charles Dickens'
"A Christmas Carol"

Audio-Visual:

Community:



nce Materials Continued and Additional Suggested Learning Experiences



6. Natural resources are not equally 0 N distributed over the earth or over Lar Discipline Area Ora ard greatly affect the geographic Subject Nat P Problem Orientation Res T conditions and quality of life. SUGGESTED LEARNING E BEFAVIORAL OBJECTIVES Cognitive: By the use of Student-Centered in class II. posters, speeches, letters, activity and planning in a class meeting, the students will develop a project for the collecting of cans & bottles for recycling. Affective: The students will evaluate the amount of materials used by a household & community. Each time they prepare a can or bottle for recycling they will be promoting concern for conservation of material resources. Skills to be Learned Organization & planning of a cooperative effort. Conducting a meeting & involving every member of a group ESEA

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resources are not equally

over the earth or over	Discipline	Language Arts
eatly affect the geographic	Subject	Oral Expression
and quality of life.	Problem Orien Sion	Natural Resources Grade 8
AT ODTEROUTURE [QUARRED FARK	ING EXPERIENCES
AL OBJECTIVES I. Student		II. Outside Resource and
i	-Centered in thats	Community Activities
ches, letters, activity		· · · · · · · · · · · · · · · · · · ·
in a class		1. Make arrangements for disposing of bottles & cans
ject for the		collected, i.e. establish
cans & bot-		a business relation with
cling.	į	a collecting point.
ne students	i.	2. Learn how to sort materials
the amount		according to salvage speci-
used by a	į	fications.
ommunity.		3. Learn to identify materials
prepare a		4. Pursue the steps through
for recycling		which salvage materials
promoting con-	Ì	pass in producing a new
ervation of		product.
irces.		5. Be alert to any other
		waste materials & possi-
Learned		bilities for recycling.
& planning of		prince for recording.
effort.	1	
meeting &		
ry member of		
		·
	1	
	}	

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Resource and Reference Materials

Continued and Additional Suggest

Publications:

30 Basic Speech Experiences, Clark Publishing Co.

elementary edition of Robert's Rules
of Order.
newspapers
magazines

Audio-Visual:

Community:

resource people who are connected with any phase of recycling of salvage materials

Materials Continued and Additional Suggested Learning Experiences

aces, Clark

abert's Rules



snowmobiles. 59-70-0135-1

7. Factors such as facilitating transportation,

economic conditions, population growth, Discipline Area

E and increased leisure time have a great Subject

T influence on changes in land use and centers of population density.

Problem Orientat

BEHAVIORAL OBJECTIVES

Cognitive: By writing an editorial, each student will express his opinion on how increased leisure time & the use of snowmobiles have influenced change in land use in his locality. Affective: The student will defend his own feelings on the issue that land use is being changed by the use of

Skills to be Learned Identifying the editorial style of writing Writing in the editorial style

- SUGGESTED LE I. Student-Centered in clas activity
 - A. Classroom
 - 1. Examples of editori will be presented to the students.
 - 2. Class will discuss the editorial style writing compares wit other expository wri
 - 3. Each student will express his own opin concerning the chang land use by snowmobi
 - 4. Editorials will be published as a class newspaper.

such as facilitating transportation,

aditions, population growth, Discipline Area Language Arts

Ed leisure time have a great Subject Writing (editorials)

Changes in land use and Problem Orientation Land Use Grade 8

Copulation density.

AL OBJECTIVES

writing an

ch student will

cinion on how

Sure time & the piles have

ange in land cality.

ne student will n feelings on t land use is

by the use of

Learned the editorial iting ne editorial SUGGESTED LEARNING EXPERIENCES

I. Student-Centered in class II. Outside activity Community

- A. Classroom
 - 1. Examples of editorials will be presented to the students.
 - 2. Class will discuss how the editorial style of writing compares with other expository writing.
 - 3. Each student will express his own opinion concerning the change in land use by snowmobiles.
 - 4. Editorials will be published as a class newspaper.

II. Outside Resource and Community Activities

Resource and Reference Materials

Publications:
Newspapers

Continued and Additional Suggeste

Audio-Visual:

Community:



Materials Continued and Additional Suggested Learning Experiences

8. Cultural, economic, social, and Discipline Area N political factors determine status Subject of man's values and attitudes Problem Orientation At T toward his environment. SUGGESTED LEARNING BEHAVIORAL OBJECTIVES Student-Centered in class Students will II. Cognitive: I. picture an example of polactivity lution in his own personal 1. Collect illustrations to environment by a collage. portray problems & solutions By another collage, he will propose a possible solution by use of a collage. to this pollution problem. Affective: Students will share with other individuals the idea that most pollution problems can be resolved. Skills to be Learned Observation Brainstorming Collage Interview Cathering Illustrations

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nomic, social, and s determine status Discipline Area Language Arts and attitudes Subject Language Arts onment. Problem Orientation Attitudes Grade 8 JECTIVES SUGGESTED LEARNING EXPERIENCES ts will I. Student-Centered in class II. Cutside Resource and activity Community Activities of pol-1. Observe the local environ-1. Collect illustrations to personal ollage. ment and list the examples of portray problems & solutions , he will by use of a collage. pollution observed. solution 2. Determine as many solutions problem. as possible by discussing with ts will parents and others or by ndivibrainstorming in class. t most 3. Interview local citizens can be who are associated with a pollution problem. (Tape record or take notes) It ed would be desirable to get as many points of view as possible The object of interviews would be to become aware of problems and possible soluations tions.

ERIC Full Text Provided by ERIC

Resource and Reference Materials Publications: papers and magazines

Continued and Additional Suggested

Audio-Visual:

any appropriate poster materials original creations to supplement illustrations, if needed

Community: interview local citizens

Continued and Additional Suggested Learning Experiences

ERIC

als

C 9. Man has the ability to manage, Discipline Area Language N manipulate, and change his E environment. Subject Language P Problem Orientation Land BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXP I. Student-Centered in class II. Out Cognitive: Through observation, organization & activity Comm communication, the students A. Classroom activity A. I will provide a series of 1 1. The class may want to graphic illustrations to make a list of sites portray a change in the to observe such as: environment. a. Installation of Affective: The student sewerage disposal will survey the changes in system. the environment produced b. Any building conby man's activities & the struction site. created effects which c. Development of a might be beneficial or wildlife aanctuary. destructive or both. d. Building or altering of a road or highway. Skills to be Learned e. Conservation prac-Observing tices in connection Communicating by vision with a lake or stream & words f. Beautification of Organizing sequence any lake, stream, Photography any grounds, lawn, Drama park, wayside, etc. g. Fish hatchery or wild game farm.

ERIC*

by to manage, Discipline Area Language Arts re his Subject Lang Eze Arts Problem Orientation Land Use SUGGESTED LEARNING TYPERIENCES IVES I. Student-Centered in class ser∸ activity lents A. Classroom activity . Local project Œ 1. The class may want to 50 make a list of sites to observe such as: a. Installation of sewerage disposal s in system. ∍d b. Any building conthe struction site. c. Development of a wildlife aanctuary. d. Building or altering of a road or highway. e. Conservation practices in connection with a lake or stream f. Beautification of . any lake, stream, any grounds, lawn, captions. park, wayside, etc. g. Fish hatchery or wild game farm. & con.

Grade 8 II. Outside Resource and Community Activities 1. Select a construction project to take place in the local vicinity. 2. Cbserve the site prior to any change & photograph (slides) areas to be changed. Use students to pose & direct attention to selected features. Do the same during development operations. 4. Continue recording, by photographic slides, after changes are complete. 5. Plan & execute narration by tape recordings with student voices or printed 6. Emphasis is to be placed on ecological effects, pro

Resource and Reference Materials | Continued and Additional Sugges

Audio-Virgal:

Community:

erials

Continued and Additional Suggested Learning Experiences

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	C 10. Short-term economic g	<u>Elns</u>	ma;	<u>ý</u>		
	O N produce long-term environmental			Discipline Ar	ea <u>Langu</u>	age
	C E losses.		,	Subject	Debat	е
	P T	. <u> </u>		Froblem Orien	tation R	ecz
	DEVANTORAL OR TEOMETIME			SUGGESTED	TEARNIN	ig F
	BEHAVIORAL OBJECTIVES	I.	Ŝ+	udent-Tentered in cl		I.
١	Cognitive: Through a debate-form discussion,	-1-•		ivity		•
	the student will devel-		1.		rrent	
뛰	op an awareness that		alm T	publications, defin		
위	there is more than			the term of "recycl		
H	one point of view to		• •	for example, cans a	• •	
넭	any issue.			bottles.		
ŏ	Affective: The student's		2.		L L	
Projec	will actively participate			two groups. One gr	oup	
집	in a recycling project			will expand all		
	in their community.	ļ		possible advantages		
넴	6 , 177			to recycling and the		
35	Skills to be Learned			other group the dis	· -	
	Reference reading		2	advantages. Upon collecting all	1	
-01	Organizing a debate Participating in	, i	3.	materials and facts		
2	a debate			a debate-form dis-	′ ,	
9	a debate			cussion will follow	v.	
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term economic tains may

g-term environmental AL OBJECTIVES hrough a iscussion. ill develess that than view to he student's participate g project unity. Learned ading debate ng in

Discipline Area Language Arts

Subject Debate

Problem Orientation Recycling Grade 8

Student-Centered in class activity

- 1. With the help of current publications, define the term of "recycling," for example, cans and bottles.
- 2. Divide the class in two groups. One group will expand all possible advantages to recycling and the other group the disadvantages.
- 3. Upon collecting all materials and facts, a debate-form discussion will follow.

SUGGESTED LEARNING EXPERIENCES
red in class | II. Outside Resource and Community Activities

Resource and Reference Materials

Publications:

Basic Speech Experiences, Clark

Publishing Co.

Speaking By Doing, National

Textbook Co.

Magazines and other current
publications

A Market State of the Control of the

Continued and Additional Suggeste

Audio-Visual: Debate film

Community:
 Local newspapers



Materials Continued and Additional Suggested Learning Experiences
s, Clark
onal
rent



- 22 To 31m1 2002	
C 11. Individual acts, duplicated	
O N or compounded, produce significant C Discipline Area	Language !
E <u>environmental alterations over time</u> . Subject	Oral Expre
T Problem Orientat	tion Pollut
BEHAVIORAL OBJECTIVES SUGGESTED LE	EARNING EXPE
Cognitive: By research and interview, the students will through critical thinking realize that there is more than one point of view on an issue. Affective: The student will accept or challenge another point or view. Skills to be Learned Speaking-Role playing Listening Critical thinking Ability to organize information SUGGESTED IF SUGGESTE	II. Out Comm 1. Comm 2. M ar 3. I ir 4. S or a. b. c. d. e. f.

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acts, duplicated Discipline Area Language Arts roduce significant terations over time. Subject Oral Expression Problem Orientation Pollution Grade 8 JECTIVES SUGGESTED LEARNING EXPERIENCES arch I. Student-Centered in class III. Outside Resource and activity Community Activities ıgh 1. Collect newspaper and magazine articles on a is subject. of 2. Make notes on newscasters and commentaries. lent 3. Discuss issues with people llenge in all walks of life. ew. 4. Search out and interview people who are authorities on a subject such as: ing a. Kinds of detergents b. Use of public waters c. Use of pesticides e d. Use of herbicides e. Use of fuels f. Kinds of power plants

Resource and Reference Materials Continued and Additional Sugg
Publications:
Newspapers
Magazines

Audio-Visual:
Radio
TV

Community:
Letter writing
Interviews



nce	Materials	Continued	and	Additional	Suggested	Learning	Experiences
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	C 12. Private ownership must O N regarded as a stewardship C E should not encrouch upon o P T the individual right of ot	Subject	ne Area Orientat	Newspa Pri	
	THE RESERVE OF THE PARTY OF THE		attac	ESTED LE	ARNING
	BEHAVIORAL OBJECTIVES				
- 59-70-0135-1 Project I.C-E	Cognitive: After finding newspaper or magazine articles which are examples of conflict between private ownership & the rights of others, students will discuss the rights of individuals. Affective: Students will accept the human value of considering the rights of private ownership & rights of public domain. Skills to be Learned Reading Discussion	I. Studen activit	t-Centered		
HH					
	·				
Title					
ESEA					·
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ership mu s t	be			
stewardship and		Discipli	ne Area	Language Arts
ouch upon or violate		Subject		Newspaper Reading Private
right of ot	hers.	Problem	Orientat	cion <u>Ownership</u> Grade <u>8</u>
		GIIO	मा त्याच्य	EARNING EXPERIENCES
JECTIVES r finding zine re examples een private rights of	I. Student- activity			
will s of			•	in various papers & magazines that would
ents will value of rights of a rights		•		relate to the concept. 2. Each student will read the article he found. 3. The class will discuss whose rights and who's right.
rned,				
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			,	
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Resource and Reference Materials

Continued and Additional Suggested

Publications:

Sand County Almanac by Aldo Leopold.

Balentine Books not reference for students but for teacher preparation
Newspapers
Magazines

Audio-Visual:

Community:



Materials Continued and Additional Suggested Learning Experiences
Aldo Leopold.
Ference for er



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as nee

In commenting on each episode used in your class, you may w format. Please feel free to adapt it and add more pages. Let u comments - negative and positive.

- I. Behavioral Cbjectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences
 A. In-Class:
 - B. Cutside & Community Activities
- IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

on each episode used in your class, you may wish to duplicate this suggested eel free to adapt it and add more pages. Let us know all your critiques and tive and positive.

Cbjectives

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earning Experiences

& Community Activities

esource & Reference Materials uggestions & comments)



Project I - C - E INSTRUCTION - CURRICULUM - ENVIRONM

ED05591

A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts GRADE 9

Produced under Title III E.S.E.A. PROJECT I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Robert Wa Robert Ke George He



INSTRUCTION - CURRICULUM - ENVIRONMENT

PROGRAM FOR ENVIRONMENTAL EDUCATION

Language Arts GRADE 9

Citle III E.S.E.A.

in CESA's 3-8-9

onsin 54301

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



PREFACE

If you wish to excite students about their environment, help is of over a hundred teachers, year long meetings, a summer workshop ecologists, this guide means realistic, developed aid for you. Pl which have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are des

ces--to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know your to adapt, adopt, or use. Be design, the range of suggestions i mentation and usage are even wider. Many episodes are self-con others can be changed in part or developed more keenly over a

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning eplan. The reasons are simple. No guide has all the answers a unless viewed in the context of your classroom situation. Thu give it a triple reading, check over the resources listed, mak prime your students, and seek help. The Project personnel and knowledgement page stand ready to aid your efforts. Feel free

4. The Project Resource Materials Center serves all CESA 3, 8, an private. We will send available materials pre-paid. Call for

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school librar Center materials. Please offer suggestions, comments, or advi-

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch suggestions on the episode pages or use the attached evaluation lected in late May next year and will be used in our revisions reactions and suggestions—negative and positive. Please note in the episodes may refer to specific, local community resource cases, individual school districts and teachers will have to acstitutes. A list of terms pertinent to the episodes is below.

7. Ecologists and other experts have simplified the issue--survival Creation's beauty and complexity--often noted as the work of a and human energy to save. A year's work by a hundred of your figesture. Without you, their work will crumble, and so might we let us live to think, feel, and act in harmony with our world.

I. Cognitive means a measurable mental skill, ability, or proce

2. Affective refers to student attitudes, values, and feelings. 3. APWI means Acceptable Performance Will Include (labels a cog

4. EPA - Environmental Problem Area.





PREFACE

excite students about their environment, help is ready. Thanks to the efforts l teachers, year long meetings, a summer workshop, university consultants and guide means realistic, developed aid for you. Please note the following ideas ted teachers in writing and editing this guide.

supplementary in nature and the episodes are designed -- at appropriate instan-

into existing, logical course content.

episode offers suggestions. Since you know your students best, you decide what ot, or use. Be design, the range of suggestions is wide; your chances for experi-usage are even wider. Many episodes are self-contained, others open-ended, still changed in part or developed more keenly over a few weeks. These built-in allow you to explore.

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ne Project ICE Bibliography in your school library for available Resource als. Please offer suggestions, comments, or advice--at any time--so that this

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If with the guide by reacting to it with scratch ideas, notes, and extended the episode pages or use the attached evaluation format, which will be col-May next year and will be used in our revisions. We sincerely want your suggestions -- negative and positive. Please note that some resources listed s may refer to specific, local community resources or conditions. ual school districts and teachers will have to adopt local or available subist of terms pertinent to the episodes is below.

other experts have simplified the issue--survival--yours, mine, our students, uty and complexity--often noted as the work of a genius--will take our genius gy to save. A year's work by a hundred of your fellow teachers is a saving out you, their work will crumble, and so might we all--literally. Instead,

think, feel, and act in harmony with our world.

Editorial Board eans a measurable mental skill, ability, or process based on factual data. efers to student attitudes, values, and feelings.

Acceptable Performance Will Include (labels a cognitive or mental performance.)

onmental Problem Area.



ACKNOWLEDGEMENTS: The following teachers and consultants part of the Supplementary Environmental Education

CESA #3 Eugene Anderson, Peshtigo Laura Berken, Oconto Falls Willard Collins, Crivitz John Cowling, Niagara Nicholas Dal Santo, Pembine Robert Dickinson, Oconto Ann Fuhrmann, Marinette Lillian Goddard, Coleman William Harper, Lena Robert Herz, St. James (L) Ester Kaatz, Wausaukee Michael Kersten, Suring Douglas Koch, Cath. Central Donald Marsh, Bonduel David Miskulin, Goodman Don Olsen, Shawano Elmer Schabo, Niagara Marion Wagner, Gillett Ruth Ward, Crivitz George Kreiling, Marinette Marg. McCambridge, White Lake Virginia Pomusl, White Lake Gailen Braun, Lena Kay DePuydt, Gillett Lousene Benter, Gillett

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ÆNTS: The following teachers and consultants participated in the development of the Supplementary Environmental Education Guide:

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Robert Cook, UWGB Dennis Bryan, UWGB

UW-Marinette

taff

1. Energy from the sun, the basic source Discipline Area N of all energy, is converted through plant photosynthesis into a form all Subject T living things can use for life pro-Problem Orientation En cesses. SUGGESTED LEARNING BEHAVIORAL OBJECTIVES Student-Centered in class The student Cognitive: will be able to compare activity & contrast modern & ancient 1. Form the students in concepts of sun and of god "brainstorming" groups to and write an essay illuslist natural phenomenon or trating the importance of resources which they think the sun on his life through are important to them. the study of mythology. 2. After formulating a list, Affective: Using brainlet each group come up storming, research, interwith the three most imporviewing, theme writing, & tant resources along with teamwork, students will reasons why they are imunderstand the importance portant. of the sun in their own 3. Let each group have a lives. spokesman who presents the list and the reasons

Skills to be Learned List in importance Formulate reasons Research Construct a chart Survey & interview Compare & contrast Write an essay

for selection. 4. Present Greek & Roman gods and what they stand for. Stress the importance of Phoebes Apollo, the sun god, and the ancient idea of a god, why did they construct the various mythological gods.

La

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- 5. Construct a chart showing th various things that were dependent on the sun during ancient times.
- 6. Compare & contrast the ancient and modern concepts of the sun & of god. Determine

e sun, the basic source

converted through

Discipline Area

Language Arts

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Subject

Mythology

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Grade

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SUGGESTED LEARNING EXPERIENCES Student-Centered in class

activity

- 1. Form the students in "brainstorming" groups to list natural phenomenon or resources which they think are important to them.
- After formulating a list, let each group come up with the three most important resources along with reasons why they are important.
- Let each group have a spokesman who presents the list and the reasons for selection.
- 4. Present Greek & Roman gods and what they stand for. Stress the importance of Phoebes Apollo, the sun god, and the ancient idea of a god, why did they construct the various mythological gods.
- 5. Construct a chart showing the various things that were dependent on the sun during ancient times.
- 6. Compare & contrast the ncient and modern concepts of the sun & of god. Determine (Odrit:)

- II. Outside Resource and Community Activities
 - 1. Do research in library why the Greeks & Romans worshipped the sun & made it into a god. Read stories of Apollo & other gods.
 - 2. Have the class survey various people to procure their concepts of the sun & of god. Present findings in class.
 - 3. Have students tape interviews with members of the community relative to the importance of the sun & weather to their business.

Resource and Reference Materials

Publications:

Gods, Heroes, and Men of Ancient Greece, W. H. D. Rouse, Signet. Ancient Myths, Norma L. Goodrich.

Ancient Myths, Norma L. Goodrich. Mentor paperback.

Outlooks Through Literature, Pooly, Scott, Foresman.

Understanding Literature, Wofford, Ginn & Co.

Audio-Visual:
filmstrips
slides
tape recorder

Community:

Continued and Additional Suggested Le

I. (Cont.)

which concept is more valid.

7. Teacher inform students that the it makes us appreciate the sun and

8. Students will evaluate their inte how things are dependent on the su

9. In a theme, the students will dis to them if sunlight no longer illu

10. The students will read stories o teacher will show filmstrips with them extemporaneously through their



Continued and Additional Suggested Learning Experiences

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ials

ich.

Pooly,

fford,

I. (Cont.) which concept is more valid.

7. Teacher inform students that the value of myths is that it makes us appreciate the sun and other resources.

8. Students will evaluate their interviews for logic & how things are dependent on the sun.

9. In a theme, the students will discuss what would happen to them if sunlight no longer illuminated the earth.

10. The students will read stories of gods. Then the teacher will show filmstrips with students narrating them extemporaneously through their knowledge.

C Discipline Are 2. All living organisms interact N Subject among themselves and their environment, Problem Orient forming an intricate unit called an ecosystem. BEHAVIORAL OSJECTIVES SUGGESTED LEAF Cognitive: After studying the school as a miniature activity ecosystem, each student will present a formal speech illustrating the relationship within another ecosystem. Affective: Using research and teamwork, students ing of the concept. will understand the complexities of an ecological

Skills to be Learned

ecosystem.

the formulation of an

0135-1

Rosearch Organize Cooperate Develop cause and effect relationships

problem as demonstrated by

Student-Centered in class

Bring in resource parson (could be science teacher), to explain the concept in a formal speech. Discuss the organization of the presented speech and the mean-

2. Show how the school is a miniature ecosystem, Have students interview various teachers, administrators, coaches, cooks, jamitors, office help and other students. In interviews students will try to determine on whom and on what each person is dependent. who or what is dependent on this person, and with whom or what each person interacts and associates. Students will pool their findings in class and with the teacher's assistance, formulate the ecosystem

(cont.)

of their school.

mselves and their environment,

n intricate unit called an

ving organisms interact

Discipline Area

Language Arts

Subject

English

Problem Orientation Ecosystem

Grade 9

MAD ORCECTIVES

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Learned

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SUGGESTED LEARNING EXPERIENCES ntered in class | 17. Outside

- Student-Centered in class activity
 - 1. Bring in resource person (could be science teacher), to explain the concept in a formal speech. Discuss the organization of the presented speech and the meaning of the concept.
 - 2. Show how the school is a miniature ecosystem. Have students interview various teachers, administrators, coaches, cooks, jamitors, office help and other students. In interviews students will try to determine on whom and on what each person is dependent, who or what is dependent on this person, and with whom or what each person interacts and associates. Students will pool their findings in class and with the teacher's assistance, formulate the ecosystem of their school.

(cont.)

II. Outside Resource and Community Activities



Resource and Reference Materials

Fublications:

"Speaking by Doing"
National Textbook Co.
Skokie, Ill.

Magazine:

"Vital Speeches"

Audio-Visual:

Filmstrip: "Man-Managed Ecosystems"
McGraw - Hill
Eulletin board display

Community:

Selence teacher or university teacher knowledgeable of ecceystems.

Continued and Additional Suggested

I. (cont.)

3. Each student will pick one m living, plant or animal) with In the speech, each student wi factors to the selected member

4. Research period in the libra fectors which are to be associtive ecosystem. Class period to and to organize scheme of ecolof appearance. Teacher will a and appoint one member of each of the ecosystem.

5. One person from each group w

each day.

6. Class will make comments on

7. Have class try to relate ec end 7.7.

8. He a member from each of t growing ecosystems daily so th growing interaction of the eco

9. As a final activity, someone clare beyond the scope of the

Options are:

student teacher and student team teachers resource person



lals

stems"

Continued and Additional Suggested Learning Experiences

I. (cont.)

3. Each student will pick one member of the ecosystem (nonliving, plant or animal) with which to develop a speech. In the speech, each student will relate two additional factors to the salected member of the ecosystem.

4. Research period in the library to discover the two reliable factors which are to be associated with the chosen member of the ecosystem. Class period to share research findings and to organize scheme of ecological topics in the order of appearance. Teacher will assign the order of appearance and appoint one member of each group to chart the growing of the ecosystem.

5. One person from each group will present his formal speech

each day.

6. Class will make comments on students' presentations.

7. Have class try to relate ecosystems to each other at end of #7.

3. Have a member from each of the three groups chart the growing ecosystems daily so that students visually see the growing interaction of the ecosystems.

9. As a final activity, someone will summarize and/or extrapclate beyond the scope of the three ecosystems presented. Options are:

student teacher and student team teachers resource person

59-70-0135-1 Project I-C-E Φ Titl

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3. Environmental factors are limiting N on the numbers of organisms living

Discipline Area

E within their influence, thus, each

Subject

T environment has a carrying capacity.

Problem Orientation

BEHAVIORAL OBJECTIVES

SUGGESTED LEARN I. Student-Centered in class activity

Cognitive: The student will be able to pick out examples of overloading the carrying capacity of some area & to express this misuse of the environment through the presentation of a TV commercial.

Affective: The student will display his understanding that an area can support only a limited number or organisms, through a

satirical commercial high-lighting the problem.

Skills to be Learned

Critical observation of community Analyze & evaluate Write persuasively Speak clearly & persuasively "th the aid of props

A. Class

 Play record of America the Beautiful, along wi pictures cr slides of h man has exceeded or dis rupted the carrying cap city of his environment

2. Cram the student's des in as small an area as possible. Analyze what overloading of the carr capacity can do. Compar the class setup to city form setup or what an o populated area does to its environment.

3. Analyze some current T commercials as to style information, wording, p etc. so students can wr a commercial which is environmentally oriente

4. Write a TV commercial, Cutting auto production clean water; returnable bottles; & population c

5. Present commercials or class with appropriate



limiting

<u>living</u>	Discipline Area L	anguage Arts		
, each	Subject En	nglish		
apacity.	Problem Orientation	Carrying Capacity	Grade	9

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Class
 - 1. Play record of America, the Beautiful, along with pictures or slides of how man has exceeded or disrupted the carrying capacity of his environment.
 - 2. Cram the student's desks in as small an area as possible. Analyze what everloading of the carrying capacity can do. Compare the class setup to city-form setup or what an overpopulated area does to its environment.
 - 3. Analyze some current TV commercials as to style, information, wording, props, etc. so students can write a commercial which is environmentally oriented.
 - 4. Write a TV commercial, i.e. Cutting auto production; clean water; returnable bottles; & population centrol.
 - 5. Present commercials orally in class with appropriate props.

- II. Outside Resource and Community Activities A. Outside work
 - 1. Have students
 observe in their
 community & come
 up with overloading
 of carrying capacity. (traffic jams,
 overcrowded slums,
 water pollution,
 etc.)



Resource and Reference Materials Publications:

Continued and Additional Suggested Learn

Audio-Visual:

Newspaper, TV & Radio Commercials
Slide projector
Record player
35 mm camera - take slides for
activities
Various props, such as pictures
or facimilies of products, etc.

Community:

Continued and Additional Suggested Learning Experiences rials cials or ıres etc.

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	C 4. An adequate supply of pur	'e
	O N water is essential for life.	. Discipline Area Langua
	C	Subject Speech
	E	2000
	T	Problem Orientation Problem Orientation Problem Problem Orientation Problem Orientatio
+	BEHAVIORAL OBJECTIVES	SUGGESTED LEARNING
1	Cognitive: The student will	I. Student-Centered in class
	be able to associate pure	activity
	water with life as shown by	A. Class activity
	his prepared reading.	1. Students & teachers
ゴ - -	Affective: Using prepared	will discuss what makes
	reading, student will	an effective reading,
٦	understand the necessity of	such as the need for
넌	an adequate supply of pure	preparation, for fluency,
۵l	water as shown by his	for modulating the voice,
0	research and discussion of	projecting, & making a
Project	written materials dealing	good appearance (stand
7	with the subject.	erect, hands out of
	1 1	pockets, etc.).
5	Skills to be Learned	2. Students will select a
135		newspaper article, poem,
Ö	Eye contact	story, or original
9	Oral interpretation	writing and emphasize
1		man's or animal's need
9	1	for pure water.
ار 4	1	3. Students will present
1	1	their readings to the class.
-	1	4. The reader will lead the
	l de la companya de l	class in analyzing &
υ	Commence of the second second second	evaluating critically,
		the content of the story.
딥	Print and a second graph of the	5. Class will pick the 3
-4		best readings which could
\mathtt{ESEA}		be presented in other
因の		English classes.
. ,	4 Programme and the state of th	

supply of pure Discipline Area Language Arts al for life. Speech - Readings Subject Problem Orientation Pure Water Grade 9_ BJECTIVES SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class udent will activity te pure A. Class activity s shown by 1. Students & teachers ing. will discuss what makes prepared vill an effective reading, such as the need for essity of preparation, for fluency, of pure for modulating the voice, his ission of projecting, & making a dealing good appearance (stand erect, hands out of pockets, etc.). 2. Students will select a

> story, or original writing and emphasize man's or animal's need for pure water. 3. Students will present

newspaper article, poem,

their readings to the class.

- 4. The reader will lead the class in analyzing & evaluating critically, the content of the story.
- 5. Class will pick the 3 best readings which could be presented in other English classes.

II. Outside Resource and Community Activities

Lon

Resource and Reference Materials Publications:

Continued and Additional Sug

The Sun Around Us, R. Coran

Audio-Visual:

Film:

Still Waters, as described in:
An Annotated Checklist of 200
Short Films for Writing Classes,
Ill. Assoc. of Teachers of English
Urbana, Ill.

Filmstrip:

Crisis of the Environment, The New York Times, 1970, KT6 (5 filmstrips & records)

Community:

Continued and Additional Suggested Learning Experiences ials 200 asses, English

ERIC

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Averable verthie

C 5. An adequate supply of clean air is Discipline Area Langu N essential because most organisms Impro E depend on oxygen through respiration, Subject Problem Orientation Clear T to release the energy in their food. SUGGESTED LEARNING EXF BEHAVIORAL OBJECTIVES Student-Centered in class Cognitive: The student II. activity will be able to discuss 1. Teacher should compile a the need for clean air as demonstrated by giving list of words dealing with a speech before the class. air pollution, lack of oxy-Affective: Using the gen, and death(e.g.- disapproach of the continued eased, morbid, tainted, poisoned, withered, rotten, story, students will be able to relate what happens shrivel, palsied) when there is no longer a 2. Teacher will start telling supply of clean air. a story of man's annihilation due to lack of clean Skills to be Learned air, which students will Poise and continuity of continue, using the selected thought using ecological material words, Students will be required to talk at least one Reasoning out the food minute. chain 3. Class discussion should follow focusing on man's need for clean air. 4. With aid of students. teacher will make an overhead transparency concentrating on this problem. 5. Possible activity: creative writing. a. Existence in a world without automobiles b. Science fiction-life on an airless planet.

ERIC Provided by ERIC

ate supply of clean air is

<u>ecause most organisms</u>

Discipline Area

Language Arts

xygen through respiration,

Subject

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the energy in their food.

activity

Problem Orientation Clean Air

Grade 9

AL OBJECTIVES ne student to discuss clean air as by giving re the class. sing the ne continued ts will be e what happens no longer a an air.

Learned ntinuity of ecological

the food

- SUGGESTED LEARNING EXPERIENCES Student-Centered in class
- 1. Teacher should compile a list of words dealing with air pollution, lack of oxygen, and death(e.g.- diseased, morbid, tainted, poisoned, withered, rotten, shrivel, palsied)
- 2. Teacher will start telling a story of man's annihilation due to lack of clean air, which students will continue, using the selected words. Students will be required to talk at least one minute.
- 3. Class discussion should follow focusing on man's need for clean air.
- 4. With aid of students. teacher will make an overhead transparency concentrating on this problem.
- 5. Possible activity: creative writing. a. Existence in a world without automobiles b. Science fiction-life on an airless planet.

II. Outside Resource and Community Activities

Continued and Additional Suga

Resource and Reference Materials

Publications:
Roget's Thesaurus
newspaper articles
30 Basic Speech Experiences,
Clark Publishing.

Audio-Visual:
Overhead transparencies

Community:

e Materials Continued and Additional Suggested Learning Experiences
riences,



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6. Natural resources are not equally N distributed over the earth or over Discipline Area E time and greatly affect the geographic Subject Resc T conditions and quality of life. Problem Orientation BEHAVIORAL OBJECTIVES SUGGESTED LEARNING E Cognitive: The student Student-Centered in class II. will be able to demonstrate activity in writing the ability to 1. Give students a jumbled distinguish man's points paragraph of about 7-8 from supporting statements sentences dealing with #6. in paragraph writing, e.g. a. Discuss how the paraparagraph about concept #6. graph should be by num-Affective: The student. bering sentences in proper by arranging a group of order. sentences dealing with b. Show how the topic sennatural resources in proper tence is supported by the order to make a coherent other sentences & the paragraph, will not only function they serve. show his understanding of c. Discuss the meaning of writing skills, but will the paragraph. also show his awareness of natural resources and how they affect geographic conditions through the discussion of the topic. Skills to be Learned Be able to distinguish the main parts in a paragraph about concept #6 above from the supporting ideas, e.g. examples, chronology, statistics, transitions, & con-

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Language Arts

Subject Composition

Natural

Problem Orientation Resources

Grade

SUGGESTED LEARNING EXPERIENCES Student-Centered in class

- 1. Give students a jumbled paragraph of about 7-8 sentences dealing with #6. a. Discuss how the para
 - graph should be by numbering sentences in proper order.
 - b. Show how the topic sentence is supported by the other sentences & the function they serve.
 - c. Discuss the meaning of the paragraph.

Outside Resource and II. Community Activities

- 1. Look up information on #6 from biology, social studies & geography books. Take oneof the topics & write a good, solid paragraph.
- 2. Have a group of the students interview the mayor and/or the city planner to discover why the population is moving in the direction it is moving regarding housing, business, and recreation areas. Prepare a display for the PTA meeting showing projected distribution of population because of natural resources & quality of life. Have students available for the parents to discuss with them this vital issue.

Resource and Reference Materials

Continued and Additional Suggested Le

Publications:

Handbook for Environmental Action, Environmental Science Center, 5400 Glenwood Avenue, Minneapolis, Minn. 55422.

Ten Years to Save Mankind, Department of Natural Resources, State of Michigan, Lansing, Mich.

Elements of Style by William

Strunk.

Audio-Visual:

Community

Materials | Continued and Additional Suggestal Action,

Continued and Additional Suggested Learning Experiences

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Minneapolis,

Center,

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ERIC

N economic conditions, population growth, Discipline Area Language A E and increased leisure time have a great Subject T influence on changes in land use and centers of population density. BEHAVIORAL OBJECTIVES Cognitive: Given excerpts from the Hidden Persuaders & discussion of various product demands, the student will be able to show how people's demands affect the environment as demonstrated by the study & oral presentation of commercials. Affective: Using commercials as examples, students will be able to explain to the class what happens to the environment when people's demands increase. Skills to be Learned Speaking Cause & effect Use of tape recorder

English Problem Orientation Leisure

SUGGESTED LEARNING EXPL I. Student-Centered in class

activity A. Classroom

C 7. Factors such as facilitating transportation,

1. Read & discuss excerpts from The Hidden Persuaders.

2. Students and/or teacher can tape a variety of commercials, class discussion of content appeal, & persuasive tactics.

3. Discuss what would result if everyone did buy one certain product. How would this affect the economy? the population? land use? transportation facilities of that area?

as facilitating transportation,

ons, population growth, Discipline Area Language Arts

isure time have a great Subject

English

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Problem Orientation Leisure Time

Grade 9

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JECTIVES

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

A. Classroom

1. Read & discuss excerpts from The Hidden Persuaders.

- 2. Students and/or teacher can tape a variety of commercials, class discussion of content appeal, & persuasive tactics.
- 3. Discuss what would result if everyone did buy one certain product. How would this affect the economy? the population? land use? transportation facilities of that area?

II. Outside Resource and Community Activities

- A. Outside classroom
 - 1. Have students bring in past & present pictures of their community to show how it has changed because of certain products & industry.
 - 2. Students bring in real or fictitious products with which to present commercials centered around a product that could be produced in their own area.
 - 3. Discuss the effects that these products would have on the community.

Resource and Reference Materials

Continued and Additional Suggested

Publications:

The Hidden Persuaders, Vance Packard Magazine, Advertizing Age

Audio-Visual:

Ads from magazines for discussion Tape recordings of commercials Picture & art drawings of products

and the explicit

Community: Courthouse or newspaper publisher for pictures of community



ials Continued and Additional Suggested Learning Experiences

sion s



N political factors determine status E of man's values and attitudes T toward his environment. BEHAVIORAL OBJECTIVES Cognitive: The student will be acle to write a dialogue showing how man feels toward his environment. Affective: Using interviewing and dialoguewriting techniques, the student will display awareness that man's culture and Financial resources determine his attitude toward his environment. Skills to be Learned Discussion Interviewing Carry on a dialogue concerning a community problem resulting from man's value.

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8. Cultural, economic, social, and

Discipline Area

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Subject

Problem Orientation Att

SUGGESTED LEARNING F Student-Centered in class activity

1. Read a novel or short story dealing with ethnic customs or money. Discuss how ethnic customs & money influence the value of the characters.

2. Students collect & bring in pictures of various economic areas. Discuss what values brought about this particular condition. To change that condition, decide what attitudes must be changed. Also discuss if this new conditon is good or bad and why.

3. Students bring to class examples of dialogue discuss the type of person and type of values contained in these examples.

- 4. Choose a common ecological problem. Each student has an occupation & the class discusses how each can help to solve the problem & what values each
- 5. Some dialogue could be acted out and tape recorded

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Language Arts

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Discipline Area

Problem Orientation Attitudes

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OBJECTIVES

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SUGGESTED LEARNING EXPERIENCES Student-Centered in class activity

- 1. Read a novel or shortstory dealing with ethnic customs or money. Discuss how ethnic customs & money influence the value of the characters.
- 2. Students collect & bring in pictures of various economic areas. Discuss what values brought about this particular condition. To change that condition, decide what attitudes must be changed. Also discuss if this new conditon is good or bad and why.
- 3. Students bring to class examples of dialogue discuss the type of person and type of values contained in these examples.
- 4. Choose a common ecological problem. Each student has an occupation & the class discusses how each can help to solve the problem & what values each have.
- 5. Some dialogue could be acted out and tape recorded.

Cutside Resource and II. Community Activities

1. Each student will interview some adult in the community concerning the ecological problem. Each student will write up the interview, using dialects, slang, idioms, as a dialogue.

Resource and Reference Materials

Continued and Additional

Publications:

One Hundred Dollor Misunderstanding

by Robert Gover.

Writing Fiction by R.V. Cassil. Diction and Style in Writing by Richard Altuk.

The Effective Theme by Waldow

Stegner.

Elements of Style by Wm. Strent.

Audio-Visual:

Magazine & newspaper pictures Tape recorder

Community:

member of community different ethnic groups people of different financial status leader in industry



e Materials Continued and Additional Suggested Learning Experiences understanding . Cassil. <u>Triting</u> by Waldow m. Strent. ictures Inancial

N manipulate, and change his E environment. P BEHAVIORAL OBJECTIVES environment. Affective: generations. Skills to be Learned of ad writing

Discipline Area Language Subject English Problem Orientation Attit

Cognitive: The student will be able to identify 5 propaganda devices in ads of products which harm his

6 9. Man has the ability to manage,

Through writing, an ad to influence the public not to buy certain products, the student will show that man, at times, changes his environment at the expense of future

Identify propaganda devices Understand words & images

SUGGESTED LEARNING EXP

- I. Student-Centered in class activity
 - A. Classroom
 - 1. Students bring in newspapers to discuss the content & make-up. Discuss why ads are important to the economy of the paper & to the needs of the people.
 - 2. Read excerpts form The Hidden Persuaders & discuss the psychology & techniques of ad writing. Choose a few well-prepared ads. Discuss how the product is made or where it comes from; what good comes from the product & what bad results from it. Discuss the effect of words on the person reading the ad & the various propaganda devices.
 - 3. Have each student pretend he has a certain amount of money. (\$5000) Given a list of priorities or variable items, he has to spend it all. Discuss how the wants of the class will change the environment.
 - 4. A student has a year to do amything he wishes. What (cont.

bility to manage, Discipline Area Language Arts change his English Subject Problem Orientation Attitudes Grade 9 SUGGESTED LEARNING EXPERIENCES **JECTIVES** I. Student-Centered in class II. Outside Resource and tudent will Community Activities activity y 5 propaids of A. Classroom 1. Students bring in newsm his papers to discuss the content & make-up. Discuss th writing, why ads are important to e the certain the economy of the paper & lent will to the needs of the people. 2. Read excerpts form The times, onment at Hidden Persuaders & discuss the psychology & techniques ture of ad writing. Choose a few well-prepared ads. Discuss how the product is ned. nda devices made or where it comes from; what good comes from the & images product & what bad results from it. Discuss the effect of words on the person reading the ad & the various propaganda devices. 3. Have each student pretend he has a certain amount of money. (\$5000) Given a list of priorities or variable items, he has to spend it all. Discuss how the wants of the class will change the environment. 4. A student has a year to do anything he wishes. What (cont.)

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Resource and Reference Materials

Publications:

The Hidden Persuaders, Vance Packard Newspapers

wewspapers Magazines

Audio-Visual:

Pictures

TV commencials

Using Community Resources, film from CBSA 9

Community:

Local TV editor

Continued and Additional Suggested Learnin

I. (cont.)

will he do? How will it affect his fur 5. Through looking at various ads, the become aware of what visual appeal doe product. Have each student pick a prothrough its manufacturing, is harming He then writes an ad with proper picture cause the public not to buy the product

als |Contin

Continued and Additional Suggested Learning Experiences

I. (cont.)

will he do? How will it affect his future life?

5. Through looking at various ads, the students become aware of what visual appeal does for the product. Have each student pick a product which, through its manufacturing, is harming the environment. He then writes an ad with proper pictures that might cause the public not to by the product.

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C 10. Short-term economic gains may N produce long-term environmental E losses. Ρ BEHAVIORAL OBJECTIVES Cognitive: Using an activity ecological topic, student will organize, present & criticize a debate showing how short-term gains could produce long-term losses. Affective: Students demonstrate an understanding of the complexities of the economic system by identifying short-term gains resulting in long-term losses in the oral discussion of the debates. Skills to be Learned Research Interview Organize Logically present & criticize a debate concerning an ecological issue

Discipline Area La Subject

Problem Orientation

SUGGESTED LEARNI I. Student-Centered in class

A. Classroom

- 1. The teacher will expla the proper way to resea use note cards, organiz an argument and the pro way of conducting a det
- 2. Watch for debates on T Inquiry or something similar.
- Have students select t a. Individual rights vs community rights
 - b. Mass transportation individual cars
 - c. Population limitation population explosion.
 - d. Forests for industry forests for recreation
- 4. Students research topi 4 minute presentation cases pro and con.
- 5. Students will get toge in groups according to & discuss the materials discovered through rese Each group, through pod of resources, will try improve each member's presentation. (cont.

nomic gains may Discipline Area Language Arts environmental Speech - Debates Subject Natural Grade Problem Orientation Resources SUGGESTED LEARNING EXPERIENCES ECTIVES I. Student-Centered in class II. Outside Resource and activity Community Activities tudent A. Classroom ent & 1. The teacher will explain showing the proper way to research, s could use note cards, organize osses. an argument and the proper way of conducting a debate. rstanding 2. Watch for debates on TV of the Inquiry or something identifying similar. sulting in 3. Have students select topic: the oral a. Individual rights vs. ebates. community rights b. Mass transportation vs. individual cars c. Population limitation vs. population explosion d. Forests for industry vs. forests for recreation 4. Students research topic for logical 4 minute presentation cases pro and con. 5. Students will get together in groups according to topic & discuss the materials they discovered through research. Each group, through pooling of resources, will try to improve each member's presentation. (cont.)

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Resource and Reference Materials

Publications:

National Forensic League,
Ripon College, Ripon, Wis.
Speaking by Doing, National
Textbook Co., Skokie, Ill.
Population Bomb, Paul Ehrlich
State Historical Society
Madison, Wisconsin
Discussion & Debate, National
Textbook Co., Skokie, Ill.

Continued and Additional Suggested

- I. (cont.)
 - 6. Debate groups will present a sides, & rebuttals. Optional
 - 7. Tape debate. Have group evalute the teacher evaluates them.

Audio-Visual:

Community:

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Continued and Additional Suggested Learning Experiences Materials I. (cont.) 6. Debate groups will present affirmative & negative sides, & rebuttals. Optional - questions from floor. 7. Tape debate. Have group evaluate themselves before nal 11. the teacher evaluates them. rlich ional 11.

11. Individual acts, duplicated 0 N or compounded, produce significant environmental alterations over time. P \mathbf{T} BEHAVIORAL OBJECTIVES Cognitive: The student will I. Student-Centered in class activity be able to identify environmental alterations ard to discover solutions as seen in descriptive and critical writing. Affective: The student will illustrate that repeated acts significantly alter the environment by compiling a list of environmentally harmful effects. Skills to be Learned Interpretation of prose writing Logical problem solving Writing descriptively

Discipline Area Language Ar Subject English

Problem Orientation E. Alter

SUGGESTED LEARMING EXPERI

- A. Read a short story or
 - novel and discuss how repeated acts altered the surroundings. B. Present slides or pic-
 - tures of community rundown vs. prosperous sections. Discuss what people live in each section and why. Account for the vast difference in the surroundings. Discuss the acts that caused both environmental situations. Which is better? How can change be instituted to better the poor situation?
- C. Make up a slide show. This Land is Your Land, showing how man has, through his acts, altered his environment.

- II. Outsi Commun
 - A. Vis or 1 stud in i If n chan seve.
 - B. Vis town desc: abou. the ' look

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Discipline Area Language Arts

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Subject

English

Problem Orientation E. Alterations Grade 9

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SUGGESTED LEARMING EXPERIENCES I. Student-Centered in class activity

- A. Read a short story or novel and discuss how repeated acts altered the surroundings.
- B. Present slides or pictures of community rundown vs. prosperous sections. Discuss what people live in each section and why. Account for the vast difference in the surroundings. Discuss the acts that caused both environmental situations. Which is better? How can change be instituted to better the poor situation?
- C. Make up a slide show, This Land is Your Land. showing how man has, through his acts, altered his environment.

- II. Outside Resource and Community Activities
 - A. Visit a nearby river or lake. Question students whether this is in its original state? If not, what caused the change--one act or several acts? Why did man allow this change?
 - B. Visit a poor section in town. Then compose a descriptive paragraph about it. Describe how the place should ideally look. Come up with repeated individual acts that might remedy the situation.

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The activities by the com-

Resource and Reference Materials

Continued and Additional Sugge:

Publications:

A Tree Grows in Brooklyn

Betty Smith The Outsiders

Audio-Visual:

Slides (teacher prepared)

Magazine pictures

Student prepared slide show

Community:

Field trip to local residential section

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nce Materials Continued and Additional Suggested Learning Experiences

A + (8)

de show

Private ownership must be N regarded as a stewardship and E should not encrouch upon or violate T the individual right of others. BEHAVIORAL OBJECTIVES Cognitive: The student will be able to describe how man's manipulation of environment might violate the rights of another as demonstrated by the writing of a short story. Affective: Given a short story, the student will pick out two examples of how man's use of the

Skills to be Learned: Be able to evaluate a short story Be able to write effectively showing man's manipulation of his environment

environment eventually

of others.

infringes on the rights

Discipline Area Langu

Subject

Creat

Problem Orientation V

SUGGESTED LEARNIN Student-Centered in class

activity Discuss:

Why certain factories are located along rivers, what good is accomplished, what problems they create for future generations. Why certain wilderness areas are being preserved How man's greediness for natural resources has contributed to erosion, pollution, and extinction of wild life.

Read a good short story, Discuss the structure, elements and language. Sketch characters and plot (violation of rights).

Write story using given plot and characters, putting own interpretation to it.

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stewardship and

Discipline Area Language Arts

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Subject

Creative Writing -- Short Stories

right of others.

Problem Orientation Violation of Grade 9

Rights
SUGGESTED LEARNING EXPERIENCES

OBJECTIVES
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Student-Centered in class activity Discuss: Why certain factories are located along rivers, what good is accomplished, what problems they create for future generations. Why certain wilderness areas are being preserved How man's greediness for natural resources has contributed to erosion, pollution, and extinction of wild life. Read a good short story, Discuss the structure.

Read a good short story,
Discuss the structure,
elements and language.
Sketch characters and
plot (violation of
rights).
Write story using given

Write story using given plot and characters, putting own interpretation to it.

II. Outside Resource and Community Activities

Resource and Reference Materials

Continued and Additional Suggest

Publications:

Professionally written stories based on this theme of violation Readings, both informative and poetic, illustrating this theme all as stimuli for ideas and the writing process

Audio-Visual:

Film
A Thousand Clowns

Community:

Local speakers, lawyers, farmers, judges who can talk anonymously of "violation" cases and stories

Continued and Additional Suggested Learning Experiences terials ries olation and theme insmont vira life (1)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as nee

In commenting on each episode used in your class, you may wformat. Please feel free to adapt it and add more pages. Let u comments - negative and positive.

I. Behavioral Objectives A. Cognitive:

B. Affective:

II. Skills Developed

III. Suggested Learning Experiences
 A. In-Class:

B. Cutside & Community Activities

IV. Suggested Resource & Reference Materials (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as needed)

each episode used in your class, you may wish to duplicate this suggested free to adapt it and add more pages. Let us know all your critiques and and positive.

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rce & Reference Materials stions & comments)

Project I - C - E INSTRUCTION - CURRICULUM - ENVIRO ED055919 A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION DISCIPLINE AREA Language Arts GRADE 10

Produced under Title III E.S.E.A.

Serving Schools in CESA's 3-8-9 1927 Main Street

54301

PROJECT I-C-E

Green Bay, Wisconsin (414) 432-4338 Robert

Robert George INSTRUCTION - CURRICULUM - ENVIRONMENT

PROGRAM FOR ENVIRONMENTAL EDUCATION

Language Arts GRADE 10

tle III E.S.E.A.

n CESA's 3-8-9

sin 54301

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist



PREFACE

If you wish to excite students about their environment, help is of over a hundred teachers, year long meetings, a summer workshop ecologists, this guide means realistic, developed aid for you. which have directed teachers in writing and editing this guide.

1. This guide is supplementary in nature and the episodes are des ces -- to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know your to adapt, adopt, or use. By design, the range of suggestions mentation and usage are even wider. Many episodes are self-co others can be changed in part or developed more keenly over a

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learning e The reasons are simple. No guide has all the answers a unless viewed in the context of your classroom situation. Thu give it a triple reading, check over the resources listed, make prime your students, and seek help. The Project personnel and knowledgement page stand ready to aid your efforts. Feel free

4. The Project Resource Materials Center serves all CESA 3, 8, an private. We will send available materials pre-paid. Call for

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school librar Center materials. Please offer suggestions, comments, or advi-

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with scratch suggestions on the episode pages or use the attached evaluation lected in late May next year and will be used in our revisions reactions and suggestions -- negative and positive. Please note in the episodes may refer to specific, local community resource cases, individual school districts and teachers will have to ad stitutes. A list of terms pertinent to the episodes is below.

7. Ecologists and other experts have simplified the issue--survive Creation's beauty and complexity -- often noted as the work of a and human energy to save. A year's work by a hundred of your gesture. Without you, their work will crumble, and so might we let us live to think, feel, and act in harmony with our world.

2. Affective refers to student attitudes, values, and feelings. 3. APWI means Acceptable Performance Will Include (labels a cog

4. EPA - Environmental Problem Area



^{1.} Cognitive means a measurable mental skill, ability, or proce

PREFACE

te students about their environment, help is ready. Thanks to the efforts chers, year long meetings, a summer workshop, university consultants and le means realistic, developed aid for you. Please note the following ideas ceachers in writing and editing this guide.

lementary in nature and the episodes are designed -- at appropriate instan-

existing, logical course content.

ode offers suggestions. Since you know your students best, you decide what or use. By design, the range of suggestions is wide; your chances for experge are even wider. Many episodes are self-contained, others open-ended, still nged in part or developed more keenly over a few weeks. These built-in

w you to explore.

ou try the episodes and suggested learning experiences but please preare simple. No guide has all the answers and no curriculum will work the context of your classroom situation. Thus, before trying an episode, eading, check over the resources listed, make mental and actual notes, s, and seek help. The Project personnel and teachers listed on the ackstand ready to aid your efforts. Feel free to ask their help in pre-planning. ce Materials Center serves all CESA 3, 8, and 9 area schools--public and send available materials pre-paid. Call for any help, materials, or to 4338.

oject ICE Bibliography in your school library for available Resource Please offer suggestions, comments, or advice -- at any time -- so that this

Let's help each other.

ith the guide by reacting to it with scratch ideas, notes, and extended episode pages or use the attached evaluation format, which will be colnext year and will be used in our revisions. We sincerely want your estions -- negative and positive. Please note that some resources listed y refer to specific, local community resources or conditions. school districts and teachers will have to adopt local or available subof terms pertinent to the episodes is below.

er experts have simplified the issue--survival--yours, mine, our students, and complexity -- often noted as the work of a genius -- will take our genius save. A year's work by a hundred of your fellow teachers is a saving you, their work will crumble, and so might we all--literally,

nk, feel, and act in harmony with our world.

Editorial Board a measurable mental skill, ability, or process based on factual data. to student attitudes, values, and feelings.

otable Performance Will Include (labels a cognitive or mental performance.) ntal Problem Area

ACKNOWLEDGEMENTS: The following teachers and consultants participate of the Supplementary Environmental Education Guide

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Alan

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The following teachers and consultants participated in the development of the Supplementary Environmental Education Guide.

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CESA #8 Lowell Baltz, Weyauwega William Behring, Lourdes David Bell, Neenah Marie Below, Clintonville William Bohne, Kimberly Bob Church, Little Chute Ronald Conradt, Shiocton Lee Hallberg, Appleton Ronald Hammond, Hortonville Jerome Hennes, Little Chute Barbara Huth, Menasha Darrell Johnson, Hortonville Bernadyne King, Neenah Harold Lindhorst, St. Martin(L) John Little, Winneconne Gene Ploetz, Kaukauna Gordon Rohloff, Cshkosh William Schaff, St. Joseph Doris Stehr, Mt. Calvary (L) Carolyn Shills, New London Sister Dorothy, Xavier Clarence Trentlage, Freedom Mike Hawkins, Xavier Beth Hawkins, Xavier Ed Patschke, Menasha Connie Peterson, St. Martin(L) Dallas Werner, Kaukauna Ron Schreier, Omro

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Robert Cook, UWGB Dennis Bryan, UWGB



nette

C 1. Energy from the sun, the basic source Discipline Area N of all energy, is converted through plant photosynthesis into a form all Subject \mathbf{E} P living things can use for life pro-Problem Orientation E cesses. SUGGESTED LEARNING BEHAVIORAL OBJECTIVES Cognitive: Using narrative I. writing as the media, the activity student will not only be able to write a well-constructed and effective story, but also be able to convincingly present it orally to the class. fiction or non-fiction. Affective: Upon finishing this unit, the student should have a better understanding of part of the

Skills to be Learned Narrative writing Oral Feading skills Production skills using the tape recorder Interpretation skills based on dramatizations

world around him; a world

reminded of and understand

the importance of the sun

that is often taken for

granted. He should be

in his life.

- Student-Centered in class
 - 1. Individual work: assign a narrative paper dealing with the theme "The Week The Sun Didn't Shine," stipulating that it can be
 - 2. Have the student read his paper to the class using any sound effects or props that would make his presentation more realistic.
 - 3. Inform the students that they may enlist the help of other students to dramatize his story if he wishes.
 - 4. Recording narratives to resemble a radio program

om the sun, the basic source

y, is converted through Discipline Area Language Arts Subject English ynthesis into a form all s can use for life pro-Problem Orientation Energy Use Grade cesses. L OBJECTIVES SUGGESTED LEARNING EXPERIENCES ing narrative Student-Centered in class II. Outside Resource and Ιι media, the activity Community Activities ot only be 1. Individual work: assign 1. Field trip as an entire a well-consta narrative paper dealing group or in small groups with the theme "The Week" ective story, to observe city and le to con-The Sun Didn't Shine," country life and the ent it orally stipulating that it can be effect the sun has on it. fiction or non-fiction. on finishing 2. Have the student read his student paper to the class using better underany sound effects or props rt of the that would make his presenim; a world tation more realistic. taken for 3. Inform the students that ould be they may enlist the help d understand of other students to of the sun dramatize his story if he wishes. 4. Recording narratives to earned resemble a radio program ting skills ills using der n skills tizations

10



Resource and Reference Materials

Continued and Additional Suggested Les

Publications:

Basic grammar & composition text section on narrative writing. Newspaper & magazine articles Books dealing with darkness and the sun - Fact or fiction. To Build a Fire - Rondon.

The Grapes of Wrath - Steinbeck.

The Sea Around Us - Carson Three Days to See - Keller

Audio-Visual:
Tape recorder Sound effects & props to coincide with story.

Community:

Evaluation of the farm community and how the sun affects it. The urban area and how the sun affects it.

ials Continued and Additional Suggested Learning Experiences
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2. All living organisms interact among Discipline Area Language N themselves and their environment, Subject English E forming an intricate unit called Problem Orientation Predators T an ecosystem. BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPERIE! Cognitive: After reading, II. I. Student-Centered in class "Thinking Like a Mountain, activity the student will be able to 1. Discuss Aldo Leopold's demonstrate in writing the "Thinking Like a Mountain" cause and effect relationfrom Land Country Almanac. ship which occurs as a rea. What was the author's sult of man's attempting attitude toward the wolf to exterminate predators. in his youth? Affective: The student b. Why did he change this 3. Cond will come to realize that

Skills to be Learned Reading for meaning Identifying cause and effett relationships Expository writing Relevant analysis

man's manipulation of one

effects among other elements

through the active part the

elament in the ecosystem

will result in various

of the system as shown

discussion.

student plays in a panel

initial attitude?

- c. What effect does the extermination of the wolf have?
- d. What is the predator's purpose?
 - 1. To insure survival of the fittest
 - 2. To keep populations in check.
- 2. Write a paragraph on one of the following: a. Killing the fox will insure the pheasant.
- b. Hawks & eagles are a nuisance to the chicken farmer, therefore, their destruction can be condoned.

Outsi: Communi

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2. Ide: attitu your

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vironment,	Discipline Area	Language Arts	
it called	Subject	English	
	Problem Orientation	Predators	Grade 10

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - 1. Discuss Aldo Leopold's "Thinking Like a Mountain" from Land Country Almanac.
 - a. What was the author's attitude toward the wolf in his youth?
 - b. Why did he change this initial attitude?
 - c. What effect does the extermination of the wolf have?
 - d. What is the predator's purpose?
 - 1. To insure survival of the fittest
 - 2. To keep populations in check.
 - 2. Write a paragraph on one of the following:
 - a. Killing the fox will insure the pheasant.
 - b. Hawks & eagles are a nuisance to the chicken farmer, therefore, their destruction can be condoned.

- II. Outside Resource and Community Activities
 - 1. In library, locate books & magazines concerned with related problems.
 - 2. Identify similar negative attitudes that exist within your community.
 - 3. Conduct a survey on ideas such as 2a & b, and others, in the community. Record the responses and reasons for such feelings. Use this information and any written material to conduct a panel discussion on the topic, airing all responses possible problems or solutions that would be affective in your community.

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Resource and Reference Materials

Continued and Additional Suggeste

Publications:

Sand County Almanac and Sketches

Here and There by Aldo Leopold,
Oxford University Press paperback,
1969 reprint, "Thinking Like a
Mountain" p. 129.

Never Cry Wolf by Mowatt. Born Free

Excerpts from stories dealing with man, nature, and animals.

Audio-V'sus

Community:

cetches continued and Additional Suggested Learning Experiences copold, caperback like a

ing with

C 3. Environmental factors are limiting

0 N on the numbers of organisms living

Discipline Area Language Art

Subject English

E within their influence, thus, each, P

Carrying Problem Orientation Capacity

T environment has a carrying capacity.

Cognitive: The students

SUGGESTED LEARNING EXPERI I. Student-Centered in class

activity A. Class 1. Organize a thematic presentation to be pre-

> sented to the class, demonstrating the concept, "How mankind is overloading or exceeding the land's carrying capacity".

2. The class will conduct a program to be put on to another English class with each student or group of students working on a project.

Example of projects:

a. A collage representative of the concept

b. Find a contemporary song or songs to illustrate the problem, use the record with the presentation

c. Choose prose or poetry to read or memorize

d. Create your own song or poem to present

e. Find illustrative slides & correlate with appropriate music

f. Present a satirical skit (cont.)

BEHAVIORAL OBJECTIVES

will use their artistic & imaginative skills to organize & produce a program made of projects which require the research, writing & speaking skills of the student. Affective: Through the assignment, the student will evaluate his own feelings towards mankind & his environment, & interpret it for the audience by using one of the mentioned projects.

Skills to be Learned

Artistic Speaking Reasoning Organizational Technical Library & reaearch

Project

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Discipline Area Language Arts

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Subject

English

Carrying

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Problem Orientation Capacity

Grade 10

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SUGGESTED LEARNING EXPERTENCES I. Student-Centered in class

A. Class

- 1. Organize a thematic presentation to be presented to the class, demonstrating the concept, "How mankind is overloading or exceeding the land's carrying capacity".
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- c. Choose prose or poetry to read or memorize
- d. Create your own song or poem to present
- e. Find illustrative slides & correlate with appropriate music
- f. Present a satirical skit. (cent.)

II. Outside Resource and Community Activities

A. Outside work 1. Invite the community to view the program or present it to some local organization.

Resource and Reference Materials

Publications:

Magazines:

Life

Look

National Geographic National Wildlife

Art

Audio-Visual:
Record player Tape recorder

Community:
Props for skit

Continued and Additional Suggested

I. (cont.)

Examples of how man's misusing :

- a. Pollution of any type
- b. Population problem
 c. Overcrowding streets & highwal. Construction of buildings
 2. Crowded residential areas

Materials

Continued and Additional Suggested Experiences

I. (cont.)

Examples of how man's misusing the land:

- a. Pollution of any type
- b. Population problem
- c. Overcrowding streets & highways
 1. Construction of buildings (business)
 2. Crowded residential areas

N water is essential for life. Ē P \mathbf{T} BEHAVIORAL OBJECTIVES-Cognitive: After observation of wildlife in & about a fresh water source, the student will demonstrate by writing a creative poem, his understanding of the dependence of life upon an adequate supply of pure water. Affective: Student will become aware of poetry as a literary art form by actually writing it themselves, developing an attitude or feelings relative to an observed situation. Skills to be Learned Skills of observation Creative writing Imagery Research skills

4. An adequate supply of pure

Discipline Area Lange

Subject

Engli

Problem Orientation Pu

SUGGESTED LEARNING
I. Student-Centered in class
activity

A. Class activity

- 1. The class will read poetry selections dealing with nature & the importance of water plays.
- 2. Each student will compose a poem about some animal or bird that was seen utilizing the water source. The poem should incorporate the "concept" While recording in an a interesting manner the actions of the bird or animal in & around the water source.

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ESEA

te supply of pure

ential for life.

Discipline Area Language Arts

Subject

English

Problem Orientation Pure Water

Grade 10

L OBJECTIVES-

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udent will f poetry as form by ng it veloping an elings observed

earned rvation ing

ls

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Class activity
 - 1. The class will read poetry selections dealing with nature & the importance of water plays.
 - 2. Each student will compose a poem about some animal or bird that was seen utilizing the water source. The poem should incorporate the "concept". While recording in an 2 interesting manner the actions of the bird or animal in & around the water source.
- II. Outside Resource and Community Activities
 - A. Community & surrounding area
 - 1. In small groups visit a fresh water source (relatively polluted) & observe the wildlife that comes to the water source for sustenance.
 - 2. Compile a list of those species that are observed around the water source.
 - B. Library
 - 1. Research the growth of cities around the Great Lakes or other fresh water sources.



Resource and Reference Materials

Continued and Additional Suggested I

Publications:

The Sun Around Us, R. Coran Six Centuries of Great Poetry, Dell paperbacks Any literary anthology

Audio-Visual:
Library resource material
Related poems, etc.
Stuffed models of wildlife in class or in museum

Community: Wildlife Sanctuary e Materials

Continued and Additional Suggested Learning Experiences

Coran Poetry,

ial life in

ERIC

depend on oxygen, through respiration, Subject Ε Problem Orienta T to release the energy in their food. SUGGESTED L BEHAVIORAL OBJECTIVES activity

5. An adequate supply of clean air is

essential because most organisms

Cognitive: The student will be able to write a descriptive essay about air pollution based on what he has seen, as well as be able to discuss the problem as found in his own community. Affective: Through observing the air pollution problem in in his own town and writing about it, the student will . show an awareness of the problem of air pollution.

Sk lls to be Learned I. scriptive writing skills L scussion skills Gaick thinking

Student-Centered in c

A. To begin class, rap flip through 10-12 s from a film strip, g the student just eno time to jot down , i word or two, his fir impressions of each.

Discipline Area

B. Have the student, these impressions, w a descriptive essay what he has just see the importance it pl his life.

e supply of clean air is ause most organisms

Discipline Area Language Arts

gen, through respiration,

Subject

English

ne energy in their food.

Problem Orientation Air Pollution

Grade 10

AL OBJECTIVES student will te a descriput air pollu~ what he has as be able to oblem as found munity. ough observing ion problem in n and writing student will ness of the

pollution. Learned writing skills kills ng

I. Student-Centered in class activity

A. To begin class, rapidly flip through 10-12 slides from a film strip, giving the student just enough time to jot down , in a word or two, his first impressions of each.

B. Have the student, using these impressions, write a descriptive essay on what he has just seen and the importance it plays in his life.

SUGGESTED LEARNING EXPERIENCES II. Outside Resource and Community Activities

A. The students will then go out into their community looking for examples of air pollution.

B. The teacher will then rerun the film strip and the class will discuss it and the examples that they have found, stressing the idea of what can be done to overcome the problem.

Resource and Reference Materials Publications:

Continued and Additional

Audio-Visual:

Environmental Pollution - Our World in Crisis, Ward's Natural Science Establishment, filmstrip on air pollution.

Community:

city engineer, city clerk township office Dept. of Natural Resources, Green Bay observe examples of air pollution in community talk to qualified people about what can be done to eliminate air pollution. aterials

Continued and Additional Suggested Learning Experiences

Our World 1 Science on air

s, Green

about what air

P

C 6. Natural resources are not equally

N distributed over the earth or over

Discipline Area

E time and greatly affect the geographic

Subject

T conditions and quality of life.

BEHAVIORAL OBJECTIVES

Problem Orienta

Cognitive: The student will be able to compare and contrast the life styles of actual and fictional characters illus-

trating the importance of natural resources by writing a paper, "How the main character's life style has been molded by the area in

which he lives."

Affective: Through observing and discussing the natural resources in the student's immediate area, they will become aware of how their lives are affec-

ted by this factor.

Skills to be Learned Reading skills

Comprehensive writing skills Discussion & debating skills Research & Interviewing skills

SUGGESTED L

I. Student-Centered in cla
activity

1. Have the class break u into groups and read the novel The Old Man and The Sea or The Pearl. Show movie, if available, of the novel.

2. Have each individual or group prepare a written paper dealing with the in "How the main character's life style has been mold by the area (natural resources) in which he live a. his life style

b. mental attitude towa life & duty to one's s

3. Divide class into grou and carry on discussion about student's life sty and how the geographical location has influenced 5. A debate may be organ-

ized around the life sty of a rural family vs. the life style of an urban family.

Show slides or picture dealing with the natural resources in your area.

a. Some should be areas (Cont

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resources	are	not	equally
Tegontrees	CT.C	TIO O	ediratry

ed over the earth or over

Discipline Area

Language Arts

greatly affect the geographic

Subject

English

s and quality of life.

Problem Orientation Resource Usage Grade

RAL OBJECTIVES The student e to compare the life

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w the main life style has

by the area in res." Through obser-

cussing the ources in the mediate area. come aware of

ves are affecfactor.

Learned lls

ve writing skills & debating skills

SUGGESTED LEARNING EXPERIENCES Student-Centered in class activity

1. Have the class break up into groups and read the novel The Old Man and The Sea or The Pearl. Show movie, if available, of the novel.

Have each individual or group prepare a written paper dealing with the idea "How the main character's life style has been molded by the area (natural resources) in which he lives.

a. his life style

b. mental attitude towards life & duty to one's self

3. Divide class into groups and carry on discussion about student's life style and how the geographical location has influenced it.

Interviewing skills 5. A debate may be organized around the life style of a rural family vs. the adde style of an urban :

finily.

 b. Show slides or pictures dealing with the natural resources in your area.

a. Some should be areas (Cont.) II. Outside Resource and Community Activities

 For discussion purposes, have the class research their surrounding area to find out how the natural resources from this region have influenced their lives.

Resource and Reference Materials

Publications:

Steinbeck - Flight

The Pearl
Hemingway - The Old Man and the Sea
30 Basic Speech Experiences, Clark

30 Basic Speech Expe Publishing.

Discussion & Debate, National Textbook Co., Skokie, Ill.

Audio-Visual:

Show movie or display pictures of the novels chosen to read. slides displaying what are considered natural resources.

Community:

Gather information from town & country residents about their life styles

Continued and Addition

I. (Cont.)

somewhat untouc

1. Explain the resources & ho

b. Show slides of and discuss ho different than rence Materials

Continued and Additional Suggested Learning Experiences

ırl Man and the Sea eriences, Clark

e, National Text-

Ill.

lay pictures sen to read. what are l resources.

from town s about

I. (Cont.)

somewhat untouched by man and others should show somewhat what man has done.

- 1. Explain the importance of changing the natural resources & how it has altered our lives.
- b. Show slides of resources not found in your area and discuss how these have developed life styles different than the one you live.

C 8. Cultural, economic, social, and N political factors determine status Discipline Area E of man's values and attitudes Subject Problem Orientatio T toward his environment. SUGGESTED LEAR BEHAVIORAL OBJECTIVES Cognitive: The student I. will be able to formulate activity some ideas relative to the above concept and put these thoughts in organized wellstructured compositions. Affective: The student will demonstrate awareness of the factors in society that affect his values & attitudes by donstructing a paper dealing with this topic. Skills to be Learned Thought interpretation Topic sentence development develop. Unifying sentences into a paragraph into overall theme Thought development Sentence structure

Student-Centered in class

1. Have students write down separate thoughts, skipping a space between each, about the aspects of the concept that affect man's values & attitudes in either city living or country living.

2. Go back over these & place them on some order as to ho you would logically want to talk about them.

3. Write first statement on sheet of paper. Have studen

4. After they have developed the first topic as far as they can tell them to gland at the 2nd statement on the other sheet & to think of a good statement to get ther from this first paragraph into the next one to keep the idea flowing smoothly.

5. Repeat with remaining statements.

6. Use overhead projector to show papers to class, concealing names. Students will comment & make corrections.

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SEA

Punctuation skills

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rs determine status

Discipline Area

Language Arts

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English Composition

ronment.

Problem Orientation Attitudes

Grade 10

BJECTIVES tudent ormulate ve to the put these ized well. itions. tudent will ness of the y that affect tudes by dondealing

ned ation evelopment es into a erall theme ent re ls

SUGGESTED LEARNING EXPERIENCES Student-Centered in class I. activity

- 1. Have students write down separate thoughts, skipping a space between each, about the aspects of the concept that affect man's values & attitudes in either city living or country living.
- 2. Go back over these & place them on some order as to how you would logically want to talk about them.
- 3. Write first statement on sheet of paper. Have students develop.
- 4. After they have developed the first topic as far as they can tell them to glance at the 2nd statement on the other sheet & to think of a good statement to get them from this first paragraph into the next one to keep the idea flowing smoothly.
- 5. Repeat with remaining statements.
- 6. Use overhead projector to show papers to class, concealing names. Students will comment & make corrections.

II. Outside Resource and Community Activities

Resource and Reference Materials Publications:

Continued and Additions

local news media textbooks, pamphlets, magazines

Audio-Visual:
overhead projector
opaque projector

Community:

interview local citizens
Dept. of Natural Resources (for
materials)
Council of Northeast Wisc. Planning
Commission
Wisc. Ecological Commission

nce Materials Continued and Additional Suggested Learning Experiences , magazines

ns rces (for

isc. Planning

ssion



c 8. Cultural, economic, social, and Discipline Area N political factors determine status E of man's values and attitudes Subject Problem Orientation Dens T toward his environment. SUGGESTED LEARNING EX BEHAVIORAL OBJECTIVES After researching I. Cognitive: Student-Centered in class the above problem, students activity will take part in a problem-1. Divide the class into 3 solving group discussion as or 4 groups & present each a means of better understanwith above concept. ding the various influences 2. Have students meet in that transportation, economic groups and organize themconditions, population growth, selves by selecting a chm. and incressed leisure time and deciding how they will have on land usage and cenorganize their problemters of population density. solving effort. Affective: That through a 3. Each student then researgroup discussion problemches the problem or assolving effort, students will signed aspects of the probbecome more aware of the vari-1em that the group has deous ways that factors such as cided to break the topic transportation, economic coninto. ditions, ropulation growth, 4. Group should meet together and increased leisure time periodically to pool inforcan have a great influence on mation or make progress rechanges in land use and popuports on their individual lation density centers. research efforts. 5. Have each group present Skills to be Learned group discussion of their Research skills research in front of class. 卫主も几 Organization skills Should last about 10 min. Extemp. Lpeaking skills Allow for class questions Group interaction skills & comments. Group leadership skills

Informative speaking Effective notetaking

Lang

Spee Popu

II.

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nomic, social, and s determine status and attitudes onment. JECTIVES researching I. students a problemcussion as understan. influences on, economic ation growth, sure time e and cenn density. through a problemtudents will of the varitors such as concmic conon growth, sure time influence on ise and popuenters.

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ills

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Subject Speech
Population
Problem Orientation Density Grade 10

- . Student-Centered in class activity
 - Divide the class into 3 or 4 groups & present each with above concept.
- 2. Have students meet in groups and organize them-selves by selecting a chm. and deciding how they will organize their problem-solving effort.
- 3. Each student then researches the problem or assigned aspects of the problem that the group has decided to break the topic into.
- 4. Group should meet together periodically to pool information or make progress reports on their individual research efforts.
- 5. Have each group present group discussion of their research in front of class. Should last about 10 min. Allow for class questions & comments.

SUGGESTED LEARNING EXPERIENCES

ered in class II. Outside Resource and
Community Activities

class into 3

present each
consent
contact to talk about the topics
each group will be discussing.

Resource and Reference Materials

Continued and Additional

Publications:

books, magazines, periodicals, and other library references

Audio - Visual:

Community:

local news media (TV, radio)
Council of Gov'ts
Northeast Wisconsin Planning
Commission
Wisc. Ecological Commission
DNR State Dept. of Conservation
Dept. of the Interior
surveys of persons who have some
interest in the various factors
mentioned which have an influence
on changes in land use and centers
of population density.



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some stors fluence centers

erials

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Continued and Additional Suggested Learning Experiences

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C 9. Man has the ability to manage, N manipulate, and change his E environment. BEHAVIORAL OBJECTIVES Cognitive: After presenting a simulated public hearing, incorporating a selected research problem from the orally presented news chippings of problems by aceach student in class, the students will use role playing as a media to demonstrate his understanding of man's individual environmental needs & wants. The students will follow-up these assignments by presenting an informative speech relating individual change or reinforcement of attitudes resulting from the study. Affective: Through roleplaying & preparing a speech dealing with man's conflicts with his environment, the students are made increasingly aware of conflicts of interest involving man's needs relative to land use. Skills to be Learned Role playing Reading aloud

Research (cont.)

Discipline Area <u>Langu</u>:

Sabject

Speecl

Problem Orientation La

SUGGESTED LEARNING

I. Student-Centered in class activity

A. Class

- 1. Role-playing Simulate a public hearing using as the basis a selected common interest problem from the local news medic One involving a wide variety of land use possibilities. e.g. The damming of a local river which could have any of the following potential effects.
 - a. Flooding of wildlife habitatb. Removal of landmark
 - trees
 - c. Electrical power availability
 - d. Creation of swimming, fishing & campsite area
 - e. Creation of watershed
 - f. Aesthetic value of lansite
 - g. Water rights above & below dam.
- 2. Speech to inform reflect personal change or reinformment of attitudes relative situation regarding land

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ability to manage,

d change his OBJECTIVES r presenting ic hearing, selected from the news blems by ... class, the e role ia to demonstanding of environants. The llcw-up these resenting an ch relating e or reinitudes he study. ugh roleing a speech 's conflicts ment, the e increasingly ts of interest needs relative

rned

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Discipline Area Language Arts

Subject Speech

Problem Orientation Land Use Grade 10

SUGGESTED LEARNING EXPERIENCES

- I. Student-Centered in class activity
 - A. Class
 - 1. Role-playing Simulate a public hearing using as the basis a selected common interest problem from the local news medic. One involving a wide variety of land use possibilities. e.g. The damming of a local river which could have any of the following potential effects:
 - a, Flooding of wildlife habitat
 - b. Removal of landmark trees
 - c. Electrical power availability
 - d. Creation of swimming, fishing & campsite areas
 - e. Creation of watershed
 - f. Aesthetic value of landsite
 - g. Water rights above & below dam.
 - 2. Speech to inform reflecting personal change or reinforcement of attitudes relative to situation regarding land use.

- II. Outside Resource and Community Activities A. Community
 - 1. Have students research, select bring to class & read aloud, a news description of an environmental conflict of interest.
 - 2. Students interview members of the community to gain insight into their views relative to environmental problems being dealt with, & as a means of substantiating the students roleplaying experience.
 - B. Library
 - 1. Research books, magazines, news-papers for related problems.

Resource and Reference Materials Publications:

Continued and Additional Suggested Skills to be Learned (cont.)

Informative speaking
Organization
Outlining
Excemp speaking
Interview
Interpretive
Business letter writing

Aud:
Books and other library reference sources

Community:

Local news media
TV
Newspaper
Radio
Townspeople
DNR State Dept of Conservation
Dept. of the Interior
Council of Governments Northeast
Wis. Planning Commission
Wisconsin Ecological Commission

e Materials

Continued and Additional Suggested Learning Experiences

Skills to be Learned (cont.)

Informative speaking

Organization Outlining Extemp speaking Interview Interpretive
Business letter writing

reference

ervation

Northeast mmission

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I - 59-7	
Title III	
ESEA	

C 10.	Short-term economic gai	ns may		
0	luce long-term environmen		Discipline Area	Languag
E loss	ses.	· · · · · · · · · · · · · · · · · · ·	Subject	English
T			Problem Orientat	ion <u>Land</u>
	BEHAVIORAL OBJECTIVES		SUGGESTED LE.	ARNING EX
Cognit	cive: The student will proving his ability to	I. Student activity	-Centered in clas	S

organize & conduct a discussion as well as express himself rationally by writing about man's attitudes towards his environment. Affective: The student will show his awareness of how decisions concerning economic gains may produce lasting environmental losses by finding examples of these losses & using them to

prepare an essay coming the

"before and after" effects.

Skills to be Learned Discussion Writing Obvervation Analyzing

A. Classroom

1. Discuss in class the question, "What is it about mankind that makes him more concerned about short-term gains than long-term losses?"

2. Have each student find 3-5 examples where man's desire for wealth has produced environmental losses which will not be e ily repaired.

ples - Junk yards, nousing developments. factories, highways, gravel pits, etc.

3. Using these examples, have the students discuss in a formal essay the differences between their' area today & the area before all these changes were made. How did these gains result in losses?

4. Set up a discussion with half the class supporting modernization & half against.

5. Tape the discussion & replay it for the class and (cont.)

rm economic gains may

erm environmental

Discipline Area

Language Arts

Subject

English

Problem Orientation Land Use

Grade

OBJECTIVES student will ability to

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tudes towards

student will ss of how ning economic e lasting sses by of these hem to coming the

r" effects.

rned

SUGGESTED LEARNING EXPERIENCES I. Student-Centered in class activity

- A. Classroom
 - 1. Discuss in class the question, "What is it about mankind that makes him more concerned about short-term gains than long-term losses
 - 2. Have each stude it find 3-5 examples whe man's desire for wealth has produced environmental losses which will not be easily repaired. Examples - Junk yards, housing developments, factories, highways, gravel pits, etc.
 - 3. Using these examples, have the students discuss in a formal essay the differences between their' area today & the area before all these changes were made. How did these gains result in losses?
 - 4. Set up a discussion with half the class supporting modernization & half against.
 - 5. Tape the discussion & replay it for the class and (cont.)

II. Outside Resource and Community Activities A. Bring in outside speakers defending one position or the other: modernization vs. protecting conservation.

Resource and Reference Materials

Publications:
Sand County Almanac
Land Ethic by Leopold

Continued and Additional Suggested

I. (cont.)
ask them to look for fallacies i

Audio-Visual:
Tape recorder

Community:
Interview townspeople
Observe changes in community
Local conservation organizations
Outside speakers

Materials

Continued and Additional Suggested Learning Experiences

I. (cont.)
ask them to look for fallacies in reasoning.

ity zations

317

11. Individual acts, duplicated 0 Discipline Area Language A or compounded, produce significant N C environmental alterations over time. Subject English Τ Problem Orientation Alterat BEHAVIORAL OBJECTIVES SUGGESTED LEARNING EXPE Cognitive: The student will I. Student-Centered in class II. be able to carry on a class Activity discussion, use this infor-A. Assign any short story mation to create a welldealing with nature structured short story, and B. Have the class decide in deliver this to the class what ways nature has been, as an interpretive reading or could be altered by or production, showing how indivilual acts, duplicated upour ed by either man

man affects his environ er Affective luating man's life style and by writing his own example in the form of a short story, the student will discover that individual acts, made by either the individual or manking as a whole, when compounded can cause impor-

tant environmental changes.

Skills to be Learned Discussion skills Writing Skills Creativity Evaluation Skills Speaking Skills

Examples: 1. creation of luxuries

2. use of automobiles

or elements of nature.

C. Using the blackboard,

list of acts which, if

alterations over time.

have the students create a

duplicated, would produce

significant invironmental

population explosion

4. industr

5. killing of animal life

6. misuse of land for farming and grazing rurpos€

D. Turn the discussion towards the students! ideas of what makes a good short story.

E. Discuss the important elements of a short story.

(cont.

C

A

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ts, duplicated

oduce significant

Discipline Area

Language Arts

erations over time.

Subject

English

Problem Orientation Alteration

Grade 10

ECTIVES ent will a class s inforwellory, and class rea ing ing how

ironment. ating d by mple in story, scover s, made

idual le, when e imporchanges.

I. Student-Centered in class Activity

- A. Assign any short story dealing with nature
- B. Have the class decide in what ways nature has been, or could be altered by individual acts, duplicated or compounded by either man or elements of nature.
- C. Using the blackboard, have the students create a list of acts which, if duplicated, would produce significant environmental alterations over time. Examples:
 - 1. creation of luxuries
 - 2. use of automobiles
 - 3. population explosion
 - 4. industry
 - 5. killing of animal life
 - 6. misuse of land for farming and grazing rurposes
- D. Turn the discussion towards the students' ideas of what makes a good short story.
- E.Discuss the important elements of a short story.

(cont.

SUGGESTED LEARNING EXPERIENCES II. Outside Resource and Community Activitic

A. Observe some ideas in their ow... community.

Resource and Reference Materials

Publications:

Anthology or book of short stories to be used in the classroom

How to Write Creatively
J.N. Hook
University of Illinois

Audio-Visual
slides and projector
still-life pictures

Community:

Collect their own pictures or props for productions

Continued and Additional

- I. Student-Centered in
- F. Have the students centered on one of
 - G. Working as an indi necessary, have the story for the class
 - H. Have each student on a critique form criteria dealing wistory, and how well main idea the stude:



[aterials

Continued and Additional Suggested Learning Experiences

1. Student-Centered in class activity (cont.)

ort stories

F. Have the students create their own short story centered on one of the ideas from their list.

G. Working as an individual, or recruiting help if necessary, have the student read or produce his story for the class.

H. Have each student in the class evaluate one story on a critique form made up by the teacher covering criteria dealing with the elements of a short story, and how well the story is centered on the main idea the student chose from the list.

res or props

C 12. Private ownership must be re0 Representation and should compared as a stewardship and should compared to the control of the control o

Discipline Area Langu

Subject

Engli

Problem Orientation Na

BEHAVIORAL OBJECTIVES

Cognitive: The student will be viewing a movie and commercials and will objectively discuss and criticize the effect the problem has on mankind, as well as create and present to the class, a better grade of commercial that protects our natural resources.

Affective: The student will show an understanding of the importance of protecting our natural resources from his own misuse, or that of others, so as to guarantee its survival for future generations, by writing a commercial that advocates protecting our natural resources.

Skills to be Learned
Observation Skills
Discussion Skills
Wsing Imagination
Writing Skills
Speaking and Role-playing

SUGGESTED LEARNING I. Student-Centered in class | I

- activity

 A. Show the film "Neighbor
- A. Show the film "Neighbors" and discuss the effect nature has on man.
- B. With the students, compile a list of things that have endured since man set foot on American soil, and that will endure beyond your own lifetime.
- C. Discuss our responsibilities in maintaining these things.
 - 1. Do future generations have a right to these?
 - 2. Does owning land give you the right to abuse it?
- D. Change the train of thought to the questions of commercialization and how natural resources are infringed upon by the individual consumer and "no-deposit, throw-away" society.
- E. Have the students bring in ads and, either alone or with a partner, have (cont.

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ownership must be restewardship and should upon or violate al right of others. L OBJECTIVES e student will novie and comm-.11 objectively iticize the blem has on ell as create the class, a of commercial our natural student will tanding of of protecting sources from , or that of to guarantee or future y writing a t advocates natural earned kills ills

tion

Role-playing

Discipline Area Language Arts

Subject

English

Problem Orientation Natural Resources Grade 10

I. Student-Centered in class activity

A. Show the film "Neighbors" and discuss the effect nature has on man.

- B. With the students, compile a list of things that have endured since man set foot on American soil, and that will endure beyond your own lifetime.
- C. Discuss our responsibilities in maintaining these things.
 - 1. Do future generations have a right to these?
 - 2. Does owning land give you the right to abuse it?
- D. Change the train of thought to the questions of commercialization and how natural resources are infringed upon by the individual consumer and "no-deposit, throw-away" society.

E. Have the students bring in ads and, either alone or with a partner, have(cont.)

SUGGESTED LEARNING EXPERIENCES
ered in class | II. Outside Resource and
Community Activities

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Resource and Reference Materials

Publications:

Magazine

Advertising Age showing yearly choices of "best ads"

Audio-Visual:

Short film "Neighbors" order form
An annotated checklist for 200
short films for writing classes.
Illinois Association of Teachers
of English. Nov. 1969.
IATE Treasurer,
100 English Building
Urbana, Illinois.
Tape recorder
Record player and records
Video-tape projector

Community:

Collecting ads
Using products or business in commercial for commercial

Continued and Additional

Student-Centered in class

them look for restric commercials.

- F. Discuss word choice, formed by commercials
- G. Write a commercial trights of others to ex
- H. Present it orally to
- I. Tape record or video-

Continued and Additional Suggested Learning Experiences aterials Student-Centered in class activity (cont.) them look for restrictions and composition of commercials. F. Discuss word choice, music, and mental picture formed by commercials. G. Write a commercial that does not infringe on the rights of others to enjoy natural resources. H. Present it orally to the class. I. Tape record or video-tape these. der form or 200 classes. Teachers

ss in

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FROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as need

In commenting on each episode used in your class, you may wi format lease feel free to adapt it and add more pages. Let us comments - negative and positive.

- I. Behavioral Objectives A. Cognitive:
 - B. Affective:
- II. Skills Developed
- III. Suggested Learning Experiences A. In-Class:
 - B. Cutside & Community Activities:
- IV. Suggested Resource & Reference Materials
 (specific suggestions & comments)



PROJECT I-C-E

Episode Evaluation Form (Reproduce or duplicate as neede.

each episode used in your class, you may wish to cuplicate this suggested free to adapt it and add more pages. Let us ow all your critiques and and positive.

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ing Experiences

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mmunity Activities:

cce & Reference Materials stions & comments)



Project I - C - E

INSTRUCTION - CURRICULUM - ENVIRONMEN

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A SUPPLEMENTARY PROGRAM FOR ENVIRONMENTAL EDUCATION

DISCIPLINE AREA Language Arts GRADE 11

Produced under Title III E.S.E.A. PRCJECT I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin 54301 (414) 432-4338

Robert Warr Robert Kell George Howl



INSTRUCTION - CURRICULUM - ENVIRONMENT

PROGRAM FOR ENVIRONMENTAL EDUCATION

Language Arts GRADE 11

tle III E.S.E.A.

n CESA's 3-8-9

sin 54301

Robert Warpinski, Director Robert Kellner, Asst. Director George Howlett, EE Specialist

PREFACE

If you wish to excite students about their environment, he of over a hundred teachers, year long meetings, a summer work ecologists, this guide means realistic, developed aid for you which have directed teachers in writing and editing this guidents.

1. This guide is supplementary in nature and the episodes are ces-to plug into existing, logical course content.

2. Each page or episode offers suggestions. Since you know to adapt, adopt, or use. By design the range of suggestimentation and usage are even wider. Many episodes are sel others can be changed in part or developed more keenly ov

possibilities allow you to explore.

3. Now we urge that you try the episodes and suggested learn plan. The reasons are simple. No guide has all the answering unless viewed in the context of your classroom situation. It give it a triple reading, check over the resources listed prime your students, and seek help. The Project personnel knowledgement page stand ready to aid your efforts. Feel

4. The Project Resource Materials Center serves all CESA 3, private. We will send available materials pre-paid. Cal

visit. Phone 432-4338.

5. Check often the Project ICE Bibliography in your school 1 Center materials. Please offer suggestions, comments, or

service may grow. Let's help each other.

6. Involve yourself with the guide by reacting to it with screages in the attached evaluated in late May next year and will be used in our revisive and suggestions—negative and positive. Please in the episodes may refer to specific, local community recases, individual school districts and teachers will have stitutes. A list of terms pertinent to the episodes is be

7. Ecologists and other experts have simplified the issue-single Creation's beauty and complexity-often noted as the work and human energy to save. A year's work by a hundred of gesture. Without you, their work will crumble, and so milet us live to think, feel, and act in harmony with our well.

I Cognitive means a measurable mental skill, ability, or

2. Affective refers to student attitudes, values, and feel 3. APWI means Acceptable Performance Will Include (labels

4. EPA - Environmental Problem Area.

PREFACE

excite students about their environment, help is ready. Thanks to the efforts teachers, year long meetings, a summer workshop, university consultants and guide means realistic, developed aid for you. Please note the following ideas ed teachers in writing and editing this guide.

supplementary in nature and the episodes are designed -- at appropriate instan-

nto existing, logical course content.

pisode offers suggestions. Since you know your students best, you decide what t, or use. By design, the range of suggestions is wide; your chances for experiusage are even wider. Many episodes are self-contained, others open-ended, still changed in part or developed more keenly over a few weeks. These built-in allow you to explore.

at you try the episodes and suggested learning experiences but please presons are simple. No guide has all the answers and no curriculum will work in the context of your classroom situation. Thus, before trying an episode, le reading, check over the resources listed, make mental and actual notes, lents, and seek help. The Project personnel and teachers listed on the ackpage stand ready to aid your efforts. Feel free to ask their help in pre-planning. source Materials Center serves all CESA 3, 8, and 9 area schools--public and Il send available materials pre-paid. Call for any help, materials, or to

Project ICE Bibliography in your school library for available Resource s. Please offer suggestions, comments, or advice -- at any time -- so that this

w. Let's help each other.

f with the guide by reacting to it with scratch ideas, notes, and extended the episode pages or use the attached evaluation format, which will be col-May next year and will be used in our revisions. We sincerely want your uggestions -- negative and positive. Please note that some resources listed may refer to specific, local community resources or conditions. In such al school districts and teachers will have to adopt local or available subst of terms pertinent to the episodes is below.

other experts have simplified the issue--survival--yours, mine, our students, ty and complexity--often noted as the work of a genius--will take our genius to save. A year's work by a hundred of your fellow teachers is a saving it you, their work will crumble, and so might we all--literally. Instead,

think, feel, and act in harmony with our world.

ns a measurable mental skill, ability, or process based on factual data. Editorial Board ers to student attitudes, values, and feelings. ceptable Performance Will Include (labels a cognitive or mental performance.)



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CESA #3 Eugene Anderson, Peshtigo Laura Berken, Gconto Falls Willard Collins, Crivitz John Cowling, Niagara Nicholas Dal Santo, Pembine Robert Dickinson, Oconto Ann Fuhrmann, Marinette Lillian Goddard, Coleman William Harper, Lena Robert Herz, St. James (L) Ester Kaatz, Wausaukee Michael Kersten, Suring Douglas Koch, Cath. Central Donald Marsh, Bonduel David Miskulin, Goodman Don Olsen, Shawano Elmer Schabo, Niagara Marion Wagner, Gillett Ruth Ward, Crivitz George Kreiling, Marinette Marg. McCambridge, White Lake Virginia Pomusl, White Lake Gailen Braun, Lena Kay DePuydt, Gillett Lousene Benter, Gillett

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CESA #9 Joan Alioto, Denmark Angela Anthony, Gibralter Harold Baeten, St. Norbert Anthony Balistrari, Howard-Suamico Lillian Berges, Seymour Carmella Blecha, Green Bay Joan Charnetski, Sevastopol Billie Feichtinger, Green Bay Rev. B. Frigo, Abbot Pennings Robert Haen, Luxemburg-Casco Russ Hanseter, Seymour Paul Kane, Ashwaubenon Roy Lukes, Gibralter Sister Anna, St. Philips Jim Maki, Sturgeon Bay Joyce Mateju, Algoma Richard Minten, W. DePere Gloria Morgan, Linsmeier Private George Pederson, Southern Door Alan Schuh, Pulaski Thomas Weyers, Cathedral Ruth Windmuller, Green Bay James Wiza, DePere John Torgerson, Kewaunee Benjamin Roloff, Howard-Suamico Greg Schmitt, Cathedral John DeWan, Green Bay Emmajean Harmann, Sevastopol Ray Gantenbein, Green Bay David Bartz, Sturgeon Bay John Hussey, Green Bay Sister Be bara, St. Bernard

nette Ednajean Purcell, OSU W-Marinette David West, Lawrence U. Robert Cook, UWGB Dennis Bryan, UWGB



Energy from the sun, the basic source N of all energy, is converted through plant Discipline Area E photosynthesis into a form all living Subject T things can use for life processes. Problem Orientation BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Gognitiva: Students will Student-Centered in demonstrate skill in using class activity concrete and connotative 1. Students will critically words through imaginative discuss writing containing writing and a personal passages with strong and conference with the teacher vivid images of the sun about the sun and how it and its effect on nature. affects life. 2. Student-made art work, Affective: Through constructpictures, slides, posters, ing of his own project, the etc. of different views of student demonstrates his the sun. understanding of the sun and 3. Teacher will organize a the effect it plays on man's thematic presentation of life. their work with musical accompaniment, with the Skills to be Learned students reacting to these Word choice through imaginative writing Imaginative expression points form of their choice, poetry,

of view.

326

marrative, essay, single

4. In second presentation, the student will alter his

effect writing.

writing approach.



sun, the basic source

onverted through plant

Discipline Area

Language Arts

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Subject

English

life processes.

Problem Orientation Sun Energy

Grade 11

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on points

SUGGESTED LEARNING EXPERIENCES
Student-Centered in | II. Outside

class activity

1. Students will critically discuss writing containing passages with strong and vivid images of the sun and its effect on nature.

2. Student-made art work, pictures, slides, posters, etc. of different views of the sun.

- 3. Teacher will organize a thematic presentation of their work with musical accompaniment, with the students reacting to these through imaginative writing form of their choice, poetry, narrative, essay, single effect writing.
- In second presentation, the student will alter his writing approach.

- II. Outside Resource and Community Activities
 - 1. Student will collect materials or slides of different aspects of the sun from the community.
 - 2. Contact Art Department for pictures.
 - 3. Contact Music Department for background music.

Resource and Reference Materials

Continued and Additional Suggested L

Publications:

Imaginative writing:
Impressionistic poetry, excerpts
from prose(novels, short stories),
newspaper articles as selected
by teacher and students.

Audio-Visual:

Pictures, slides, posters, art productions.
Slide using shadows, light, sun Tape recorder
Record player

Community:

Art teacher
Music teacher
Local library
Slides from community

excerpts et stories), selected

<u> Materials</u>

s, art tht, sun

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Continued and Additional Suggested Learning Experiences

C 2. All living organisms interact among

N themselves and their environment,

Discipline Area English

E forming an intricate unit called an

Subject

Forms C

T ecosystem.

Problem Orientation Ec

BEHAVIORAL OBJECTIVES

SUGGESTED LEARNING I. Student-Centered in class

Cognitive: Students should . be able to demonstrate the distinctions between descriptive & expository writing & be able to give an example of each as a reaction to a visual

activity A. Class

stimulus. Affective: Students should become more sophisticated in their reading. e.g. In their grammatical usage & its bearing on their writing. They should see writers' attitudes more clearly & thus be able to measure their own attitudes more efficiently against the writer's & against other students.

1. Have students vi∈ similar full page pictures from some commercial magazines. Suggested examples might be comparisons.

a. Ants working in their communities as compared to men pictured in the busy city.

b. Pictures of rural or city life showing skills that are almost non-existent, compared to pictures extinction or that are extinct.

of animals faced with

2. Conceal these pictures.

- 3. Have the student note subtle similarities & differences in a one or two sentence form.
- 4. Select 10 or 12 of these sentences written to be put on the board,
- 5. From the selected

(cont.)

Skills to be Learned Defining 2 forms of writing, expository & descriptive Determine more effective approach in a given situation

g organisms interact among

d their environment,

Discipline Area English

tricate unit called an

Subject

Forms of Writing

SUGGESTED LEARNING EXPERIENCES

Problem Orientat Ecosystem

Grade 11

OBJECTIVES idents shou**l**d enstrate the etween expository ole to give each as a risual

idents should phisticated ng. e.g. In cal usage & their writing. e writers' clearly & thus sure their own efficiently iter's & students.

arned ems of writing, descriptive effective a given

1. Student-Centered in class activity

A. Class

- 1. Have students view similar full page pictures from some commercial magazines. Suggested examples might be comparisons.
 - a. Ants working in their communities as compared to men pictured in the busy
 - b. Pictures of rural or city life showing skills that are almost non-existent, compared to pictures of animals faced with extinction or that are extinct.
- 2. Conceal these pictures.
- 3. Have the student note subtle similarities & differences in a one or two sentence form.
- 4. Select 10 or 12 of these sentences written to be put on the board.
- 5. From the selected (cont.)

Outside Resource and II. Community Activities

A. Library

- 1. Locate examples of expository & descriptive writing associated with concept.
- 2. Discuss which type of writing is most appropriate for what is being said.



Rescurce and Reference Materials

Publications:

Texts:

Warriner;s Handbook

The English Language II,

Harcourt Brace & World

Any language text can be used to acquire basic materials

Magazines:

Look

Life

National Geographic

Audio-Visual: Crowd pictures City life Restful rurul life

Community:

Continued and Additional

I. (cont.)
sentences, make dis
or expository sente
concept.

6. Have student organ classroom demonstra & descriptive writing depicting ecologica

II, Id o be used

erials

e Materials

Continued and Additional Suggested Learning Experiences

I. (cont.)

sentences, make distinctions between descriptive contexpository sentences as they relate to the

6. Have student organize a bulletin board in half or classroom demonstrating effectiveness of expository descriptive writing. Use editorials, poems, atc. depicting ecological principles.



3. Environmental factors are limiting on the numbers of organisms living within C their influence, thus, each environment T has a carrying capacity. BEHAVIORAL OBJECTIVES Cognitive: The student will be able to discuss, plan, explain and survey the application of concept #3 in two modern dramas as well as conducting a survey based on the ecological problem. Affective: Through surveying and preparing an oral or written evaluation about the effects of living in an overcrowded area, the student will be able to understand the actions and attitudes of people in relationship to their surroundings. Skills to be Learned Interpretive reading skills Speaking skills Comparison of actions in relationship to an ecological problem

Interviewing skills

9-70-0135-1

Discipline Area

Subject

Problem Orientation

SUGGESTED LEARNING Student-Centered in class

activity

ī.

1. After reading one of the following plays -- "The Death of a Salesman" or "West Side Story", the class will expound either verbally or in written form on the following idea.

a) Death of a Salesman - 1 Willy is the way he is because he feels "stuck" between the apartments. See stage directions before Act I and dialogue in Act I.

b) West Side Story - Why the gangs? Why the hostility? Why the rooftop scenes? Overcrowded again.

c) Read excerpts from the plays dealing with problem (e.g. Biff talking about the colts and freedom...Willy talking about his apartments and lack of air.)

ital factors are limiting on of organisms living within nce, thus, each e tronment ng capacity. DEJECTIVES student will Ī. cuss, plan, rvey the concept #3 dramas as ting a surhe ecological ough surveying an oral

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earned
reading skills
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e able to

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of people

Discipline Area

Language Arts

Subject

English

Problem Orientation Overcrowding

Grade 11

SUGGESTED LEARNING EXPERIENCES

- Student-Centered in class activity
 - 1. After reading one of the following plays -- "The Death of a Salesman" or "West Side Story", the class will expound either verbally or in written form on the following
 - a) Death of a Salesman 1 Willy is the way he is because he feels "stuck" between the apartments. See stage directions before Act I and dialogue in Act I.
 - b) West Side Story Why the gangs? Why the hostility? Why the rooftop scenes? Overcrowded again.
 - c) Read excerpts from the plays dealing with problem (e.g. Biff talking about the colts and freedom...Willy talking about his apartments and lack of air.)

- Outside Resource and II. Community Activities
 - 1. Outside Activities to be reported on in verbal as well as written form. (To be done as an individual or in groups of two)
 - a) Record observations made in a crowded city or store, noting the reactions of people to different situations.
 - b) Compare and contract the reactions of people in a crowded atmosphere vs. a non-crowded one. (Same setting.
 - c) Observe and record the reactions of teacher and students in an overcrowded atmosphere.
 - d) Survey people who live in apartments or tenament houses and see if they think their lives are affected by their living conditions.



urce and Reference Materials

Continued and Additional Suggested

Leations:

Leath of a Salesman"

Fopulation Density Maps
Photographs of local crowded conditions

Audio-Visual: Photographs

Maps
Tape recorder for tape survey responses -

Community:

Fivare business owners and workers munity members

Continued and Additional Suggested Learning Experiences ials workers

ERIC Full Text Provided by ERIC

BEHAVIORAL OBJECTIVES Compltive: Through the reseanch development and presentation of contemporary materials in the form of a "Today" show, the students will demonstrate their knowledge of the need for adequata supplies of pure water and clean air as related in concepts 4 and 5 respectively. Affective: A student learns by accually preparing and presenting a written script for a "talk" show dealing with the need for pure water and clean air and how they are passively accepted rather than actively understood,

Skills to be Learned
Research group interaction
Better understanding of mass
media - especially television, listening and interpretation,

SUGGESTED LEARNING
Student-Centered in

class activity
1.Introduce concepts 4 & 5
as theme ideas for a T.V.

show.

- 2. Ask class what procedures would have to be followed to organize a presentation centering on these themes. Ideas could include:
 - a) use of reference materials
 - b) consulting of periodicals
- c) division of class into groups for more direct study
- d) preparation of scripts
- e) use of visual aids
 1) pictures (clipped and framed)
 - 2) student prints and slides showing activities dependent on pure water and clean air.
- f) choosing of commentators technicians and directors for the actual show. (cont.)

ERIC Full Text Provided by ERIC

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ate supply of pure water is

Discipline Area

English

or life. (applicable to No.5

Subject

English

Problem Orientation Water & Air

Grade 11

OBJECTIVES

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he form of a
the students
he their knowhed for adeof pure water
has related in

of pure water as related in 5 respectively. Cudent learns eparing and citten script now dealing for pure water and how they accepted cively under-

earned
interaction
anding of mass
ally televisand interpre-

SUGGESTED LEARNING EXPERIENCES

- 1. Student-Centered in class activity
 1. Introduce concepts 4 & 5
 - 1. Introduce concepts 4 & 5 as theme ideas for a T.V. show.
 - 2. Ask class what procedures would have to be followed to organize a presentation centering on these themes. Ideas could include:
 - a) use of reference materials
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 - c) division of class into groups for more direct study
 - d) preparation of scripts
 - e) use of visual aids
 1) pictures (clima
 - 1) pictures (elipped and framed)
 - 2) student prints and slides showing activities dependent on pure water and clean air.
 - f) choosing of commentators technicians and directors for the actual show. (cont.)

- II. Outside Resource and Community Activities
 - l. Library Find essays, articles and other materials that are pertinent to the concepts. Emphasize the necessity to edit and combine these materials to add originality to show.
 - 2. Assign the viewing of contemporary documentary shows such as "First Tuesday" and "60 Minutes" to gather ideas and techniques for the class presentation.
 - a) Students should make notes about attention getting techniques and elements of good reporting,
 - b) Emphasize the importance of timing and originality in these presentations.
 - c) Portions of a good speech text should be assigned for outside reading.
 - 3. As part of the show, interviews of individuals in the community could be used. Such individuals as doctors, dentists, lawyers, factory workers (cons.)



Resource and Reference Materials

Publications:

Life

Look

Newsweek

Time

National Geographic

Newspapers

Speech Text

Media Resource Materials

"The Sea Around Us"

R. Carson

"30 Basic Speech Experiences"

Clark Publishers

"Speaking by Doing"

National Textbook Co.

Skokie, Ill.

(The included materials are generally presented with the understanding that the possibilities are limited and the breadth of this activity is very openended)

Audio-Visual:

News programs -T.V. & Radio

Community;

Continued and Additional Suggest

I. (Cont.)

3. Get class ideas as to length of time required. Time could vary depending on level and resourcefulness of class from 3rd and 4th day to a couple of weeks.

4. Divide the class into groups, each with a definite subject respon-

sibility.



ials

Continued and Additional Suggested Learning Experiences

I. (Cont.)

3. Get class ideas as to length of time required. Time could vary depending on level and resourcefulness of class from 3rd and 4th day to a couple of weeks.

 Divide the class into groups, each with a definite subject responsibility. II. (Cont.)

and parents should be included to represent different opinions. Preperation of advance questions should be required as well as proper interview techniques.

4. The show should be community oriented whenever possible, but most of what is included will probably be of state and national significance.

NOTE: The entire presen-

tation could last from one-half to one hour as the instructor sees fit. The use of movie equipment or video-tape would enhance the experience but is not essential.

nderties of

gen-

11

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E time and greatly affect the geographic T conditions and quality of life. BEHAVIORAL OBJECTIVES The student Cognitive: will be able to write a creative description illustrating that natural resources greatly affect the quality of life. Affactive: Through observation and entries in journals, the student will demonstrate his awareness that the presence and absence of natural resources greatly affect the quality of life, 59-70-0135-1 and by describing what his community would look like with the addition of one resource. Skills to be Learned Journal recording Creative descriptive writing Use of concrete writing Title ESEA

C 6. Natural resources are not equally

N distributed over the earth or over

Discipline Area

Subject

Problem Orientation Re

SUGGESTED LEARNING Student-Centered in class

activity

1. Students should take their journal entry & add a given natural resource to it. Then write a descriptive theme on what he thinks this area might look like in its changed state.

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over the earth or over

Discipline Area

Language Arts

atly affect the geographic

Subject

English

nd quality of life.

Problem Orientation Resource Usage Grade 11

L OBJECTIVES e student o write a iption illusatural rey affect the е. rough obser-

ries in jourent will s awareness nce and absende

ources greatly lity of life, ing what his d look like

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- SUGGESTED LEARNING EXPERIENCES Student-Centered in class activity
- 1. Students should take their journal entry & add a given natural resource to it. Then write a descriptive theme on what he thinks this area might look like in its changed state.
- Outside Resource and II. Community Activities
 - 1. Field trip to lake or river. Discuss the effect this natura resource has on animals and people. Why did this have such a great effect on them. Read Thoreau's journal of writings.
 - 2. Individuals should observe a given area in the community for a number of days, then write a journal on what they observed.
 - 3. Bring in pictures or slides of areas rich in natural resources & discuss the effect these have on the quality of life.
 - 4. Have a DNR representative come to speak on what their area will look like in 10 years.

5.

Resource and Reference Materials Publications:

Continued and Additional Suggest

Thoreau's writings
Handbook for Environmental Action

Audio-Visual:
Film - One Day at Teton Marsh

Community:

Local river or lake
Resource person on natural
resources

Action

sh

erials

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Continued and Additional Suggested Learning Experiences

7. Factors such as facilitating transportation,

N economic conditions, population growth, Discipline Area

E and increased leisure time have a great Subject

P Tinfluence on changes in land use and Problem Orientati

centers of population density.

BEHAVIORAL OBJECTIVES

SUGGESTED LEA

Cognitive: The student will be able to compare, through reading & discussing, the way life has changed & the reasons for this & display what he has learned through the creation of visual aids.

Affective: Through the collection & discussion of material dealing with changes of life in the Missiddippi area, the student should have a better understanding of

Skills to be Learned
Commarative reading
Comparative discussion
Organization skills

life's changes.

- 1. Student-Centered in class activity
 - A. Classroom
 - Have the class read t selections by Twain.
 - 2. If available, show the movie to help students understand materials.
 - 3. Discuss life of the area as it was in Twain's time.

Project

59-70-0135-1

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Title

ESEA

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ditions,	population	growth,	Discipline	Area	Language	Arts		
l leisur	e time have	a great	Subject		English		 	

changes in land use and

Problem Orientation of Life

Changes

Grade 11

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L OBJECTIVES student will pare, through

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SUGGESTED LEARNING EXPERIENCES 1. Student-Centered in class activity

A. Classroom

- 1. Have the class read the selections by Twain.
- 2. If available, show the movie to help students understand materials.
- 3. Discuss life of the area as it was in Twain's time.

II. Outside Resource and Community Activities

A. Outside classroom

- 1. Collect magazines or news articles dealing with life on the Mississippi as it is today.
- 2. Have the students present their findings to the class.
- 3. Discuss the changes that have been made & the reasons for them.
- 4. Prepare a collage, poster, bulletin board, etc. which depicts the two eras & how they differ.

Resource and Reference Materials

Continued and Addtional Suggested Learning Exp.

Fublications:

Life on the Mississippi, selected essays by Twain

Magazines:

Look

Life

Time Newswoek

Audio-Visual:

Movie:

Life on the Mississippi Slides of the Mississippi area

Community:

Local library
Magazine drive to find pictures
Ficture: or slides gotten from
community members
Dept. of Natural Resources



Continued and Addtional Suggested Learning Experiences



8. Cultural, economic, social, and CN political factors determine status Discipline Area E of man's values and attitudes Subject toward his environment. Problem Orientation A BEHAVIORAL OBJECTIVES SUGGESTED LEARNING Cognitive: Following the Student-Centered in class II suggested learning experactivity iences, the student will 1. Organize a ten-minute be able to state in a presentation simulating a written paper the relationnewscast, focusing on stated ship between a man's cultural, concept. economic, social, and polia. Prepare a written newscast tical status and his values b. Prepare slides and/or film & attitudes toward the illustrating how cultural, environment. economic, social, and poli-Affective: Through preparing tical factors determine status a newscast, the student will of man's values & attitudes come to recognize the relatoward his environment. tionship expressed in the c. Interview people of the 0 - 0135 concept. community who represent various economic, social, Skills to be Learned cultural, and political Film-making skills status, taping their Interviewing responses (audio & video) Testing or measuring attitudes 1) White collar, blue Research collar, etc. For interview, prepare an instrument to measure attitudes.

ERIC Founded by ERIC



omic, social, and determine status Discipline Area Language Arts nd attitudes Subject English Problem Orientation Attitudes nment. Grade 11 ECTIVES SUGGESTED LEARNING EXPERIENCES ng the Student-Centered in class I. II. Outside Resource and experactivity Community Activities will 1. Organize a ten-minute \mathfrak{I} presentation simulating a elationnewscast, focusing on stated s cultural, concept. nd polia. Prepare a written newscast s values b. Prepare slides and/or film the illustrating how cultural, economic, social, and polipreparing tical factors determine status dent will of man's values & attitudes ne relatoward his environment. in the c. Interview people of the community sho represent Various aconomic, social, cultural, and political shalos, taping their responses (audio & video) ng attitudes 1) Thine collar, blue adliar, ata, For interview, propare an incomment to measure altitudes.

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Continued and Additional Su

Resource and Reference Materials

Publications:

Political Attitudes in Children by Robert Hess.

The Cultural Basis of Our Environmental Crisis by Louis Moncrief.

Audio-Vicual:

videotape newscasts for analysis

Community:

local news people of TV, radio, and newspaper the community library (materials on various cultures & their attitudes toward the engineent)



ee Materials

Continued and Additional Suggested Learning Experiences

Children by

Our Environs Moncrief.

r analysis

V, radio,

various tudes t)



C 9. Man has the ability to m					
N manipulate, and change his C	Discipline Area				
E environment. P	Subject				
T	Problem Orientat				
BEHAVIORAL OPJECTIVES	SUGGESTED LE				
Cognitive: Student at the	I. Student-Centered in class				
end will be able to demon-	activity				
strate his perception &	A. Classroom				
understanding of concept	1. Show the NBC movie,				
#9 oy his own oral/visual	Abendoned.				
presentation to the class.	2. Discuss the film tec				
Affective: The student	music, narration coor				
will demonstrate his aware-	& selection of subjec				
ness of how he can change	3. Discuss the subject				
his own world by researching	presentation, viz :				
a local ecological problem,	ability to manipulate				
preparing a movie, & then	ment. Show movie agai				
showing this to other	re-emphasize points o				

Skills to be Learned Demonstration Interview

students or community

Research

groups.

Observation

show them for the fir 4. Research - In areas the students live, ab cars may not be the e mental issue. Seek ou

key ecology issue in through the news medi personal observation, view of local ecology

Now, make a movie sho element of the local menace. Accompany it

commentaries or appro music. (If movie is t expensive, maybe slid

study would work.)

he ability to mange,

and change his

Discipline Area Language Art.

Subject

Film Study

Problem Orientation Land Use

Grade

Grade 11

L OPJECTIVES

dudent at the le to demonception & of concept oral/visual to the class.

te his awarecan change by researching

cical problem, vie, & then

onmunity

earned

A. Classroom

- 1. Show the NBC movie, The Abendoned.
- 2. Discuss the film technique, music, narration coordination & selection of subject matter.
- 3. Discuss the subject used for presentation, viz. man's ability to manipulate envioronment. Show movie again to re-emphasize points or to show them for the first time.
- 4. Research In areas where the students live, abandoned cars may not be the environmental issue. Seek out the key ecology issue in the area through the news media, personal observation, & interview of local ecology group. Now, make a movie showing one element of the local ecology menace. Accompany it with commentaries or appropriate music. (If movie is too expensive, maybe slide case study would work.)

- II. Outside Resource and Community Activities
 A. Community
 - 1. Show two or three of the best movies submitted by the class at the next PTA meeting or avan all school assembly to spur these groups to some ecological action.

Resource and Reference Materials

Continued and Additional Suggeste

Publications:

Speaking By Doing, National Textbook Co.-Skokie, Ill.

Audio-Visual:

The Abandoned

Alone in the Midst of the Land from 180-TV Educational Enterprises, Room 1040, #007901, \$10.00, 30 Rockefeller Plaza, New York, N.Y. 10020 A fine collection of movie write-ups all dealing with ecology

Community:



Materials nal 1. Continued and Additional Suggested Learning Experiences

Land Enter-Cl, laza,

e th ecology

C 10. Short-term economic	gains mav
N produce long-term environ	
C E losses.	Manual III .
P 1000es.	
Т	
DEUL III ODAT	
BEHIVIORAL OBJECTIVES	
Cognitive: Each student will be able to make a	I. Stud
written statement on the	activ
effect of the manipula-	1. I
tion of the land by man	2. /
through the reading of	Ç
Grapes of Wrath.	3. F
Affective: By discussing	-
the novel, Grapes of	ŗ
Wrath. and by collect-	
ing contemporary articles	
concerning man's conflict	
with the land, the student presents an	
understanding of what	
happens when the land	
does give out.	
Skills to be Learned	
Relating to community attitudes on the land	
Writing reactions to	
human dilemma	
Analyzing good liter-	
ature for ecological	,
references	
1	

Discipline Area Engl

Subject

Eng

Problem Orientation

I. Student-Centered in class activity

- 1. Read Grapes of Wrath.
- 2. Answer discussion questions concerning ecological significance.
- 3. React in writing to photos of depravation and poverty.

ESEA Title III - 59-70-0135-1 Project I-C-E

t-term economic gains may

ong-term environmental ORAL OBJECTIVES Each student e to make a tement on the ne manipulaland by man reading of ath. By discussing rapes of y collectrary articles an's conflict d, the ents an g of what the land t. Learned community n the land ctions to na ood litercological

Discipline Area English

Subject

 $\mathrm{En}_{\mathbb{L}}$ sh

Problem Orientation Land Usage

Grade 11

SUGGESTED LEARNING EXPERIENCES

- Student-Centered in class activity
 - Read Grapes of Wrath. 1.
 - Answer discussion questions concerning ecological Significance.
 - React in writing to photos of depravation and poverty.
- Outside Resource and II. Community Activities
 - Find contemporary articles and photos concerning man's conflict or dependence on the land.
 - Report on the Oklahoma Dust Bowl.
 - Research what is being done in the community to insure the lands continued productivity.

Resource and Reference Materials Publications:

Continued and Additional Suggeste

Grapes of Wrath, John Steinbeck

Ecology, a teaching unit from

Campus book club including

Walden, Born Free and The Bear

Scholastic Book Services,

50 West 44th Street, New York,

New York 10036

Audio-Visual:

Community:

Continued and Additional Suggested Learning Experiences

Steinbeck it from uding The Bear es, New York,

C 11. Individual acts, duplicated
O
N or compounded, produce significant
C environmental alterations over time.
P

Discipline Area Langu

Subject

Engl:

Problem Orientation

SUGGESTED LEARNING

BEHAVIORAL OBJECTIVES

Cognitive: Through the research of contemporary writing, the student will learn the importance of recycling and demonstrate this understanding by participating in an actual glass drive.

Affective: The student, through actual participating

Affective: The student, through actual participation in a civic problem, develops an understanding of the important part he can play in altering his environment.

Research group discussion
Croup participation
Active involvement in
'project
Assessment of an activity

I. Student-Centered in class activity

A. Introduce the essentials of group discussion or planning

B. Introduce an environmental cause (glass disposal, paper disposal)

C. Make classroom committees responsible for:

1. Writing handout sheets

- 2. Writing newspaper articles
- D. Check sources for ideas which could be used to increase community impact

